

# **Natural Gas Monthly**

## **February 1998**

**Energy Information Administration**  
Office of Oil and Gas  
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*Petroleum Supply Monthly*, updated on the 20th of the month

*Petroleum Marketing Monthly*, updated on the 20th of the month

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*Natural Gas Monthly*, updated on the 20th of the month

*Weekly Coal Production*, updated on Fridays at 5:00 p.m.

*Quarterly Coal Report*, updated 60 days after the end of the quarter

*Electric Power Monthly*, updated on the 1st of the month

*Monthly Energy Review*, updated the last week of the month

*Short Term Energy Outlook*, updated 60 days after the end of the quarter

## Preface

The *Natural Gas Monthly (NGM)* is prepared in the Natural Gas Division, Office of Oil and Gas, Energy Information Administration (EIA), U.S. Department of Energy (DOE), under the direction of Joan E. Heinkel.

General questions and comments regarding the *NGM* may be referred to Ann M. Ducca (202) 586-6137. Specific technical questions may be referred to the appropriate persons listed in Appendix E.

The *NGM* highlights activities, events, and analyses of interest to public and private sector organizations associated with the natural gas industry. Volume and price data are presented each month for natural gas production, distribution, consumption, and interstate pipeline activities. Producer-related activities and underground storage data are also reported. From time to time, the *NGM* features articles designed to assist readers in using and interpreting natural gas information.

The data in this publication are collected on surveys conducted by the EIA to fulfill its responsibilities for gathering and reporting energy data. Some of the data are collected under the authority of the Federal Energy Regulatory Commission (FERC), an independent commission within the DOE, which has jurisdiction primarily in the regulation of electric utilities and the interstate natural gas industry. Geographic coverage is the 50 States and the District of Columbia.

Explanatory Notes supplement the information found in tables of the report. A description of the data collection surveys that support the *NGM* is provided in the Data Sources section. A glossary of the terms used in this report is also provided to assist readers in understanding the data presented in this publication.

All natural gas volumes are reported at a pressure base of 14.73 pounds per square inch absolute (psia) and at 60 degrees Fahrenheit. Cubic feet are converted to cubic meters by applying a factor of 0.02831685.

# Common Abbreviations Used in the Natural Gas Monthly

AGA	American Gas Association	IOGCC	Interstate Oil and Gas Compact Commission
Bbl	Barrels	LNG	Liquefied Natural Gas
BLS	Bureau of Labor Statistics, U.S. Department of Labor	Mcf	Thousand Cubic Feet
Bcf	Billion Cubic Feet	MMBtu	Million British Thermal Units
BOM	Bureau of Mines, U.S. Department of the Interior	MMcf	Million Cubic Feet
Btu	British Thermal Unit	MMS	United States Minerals Management Service, U.S. Department of the Interior
DOE	U.S. Department of Energy	NGL	Natural Gas Liquids
DOI	U.S. Department of the Interior	OCS	Outer Continental Shelf
EIA	Energy Information Administration, U.S. Department of Energy	STIFS	Short-Term Integrated Forecasting System
FERC	Federal Energy Regulatory Commission	STEO	Short Term Energy Outlook
		Tcf	Trillion Cubic Feet

# Contents

	Page
<b>Highlights</b> . . . . .	1
<b>Appendices</b>	
A. Explanatory Notes . . . . .	73
B. Data Sources . . . . .	81
C. Statistical Considerations . . . . .	87
D. Natural Gas Reports and Feature Articles . . . . .	93
E. Technical Contacts . . . . .	97
F. Natural Gas Electronic Products . . . . .	99
<b>Glossary</b> . . . . .	103

## Tables

	Page
1. Summary of Natural Gas Production in the United States, 1992-1998 . . . . .	7
2. Supply and Disposition of Dry Natural Gas in the United States, 1992-1998 . . . . .	8
3. Natural Gas Consumption in the United States, 1992-1998 . . . . .	10
4. Selected National Average Natural Gas Prices, 1991-1997 . . . . .	12
5. U.S. Natural Gas Imports, by Country, 1991-1997 . . . . .	14
6. U.S. Natural Gas Exports, by Country, 1991-1997 . . . . .	15
7. Marketed Production of Natural Gas, by State, 1991-1997 . . . . .	16
8. Gross Withdrawals and Marketed Production of Natural Gas by State, October 1997 . . . . .	19
9. Underground Natural Gas Storage - All Operators, 1992-1998 . . . . .	20
10. Underground Natural Gas Storage - by Season, 1993-1998 . . . . .	22
11. Underground Natural Gas Storage - Salt Cavern Storage Fields, 1995-1997 . . . . .	23
12. Underground Natural Gas Storage - Storage Fields Other than Salt Caverns, 1995-1997 . . . . .	24
13. Net Withdrawals from Underground Storage, by State, 1995-1997 . . . . .	25
14. Activities of Underground Natural Gas Storage Operators, by State, December 1997 . . . . .	29
15. Natural Gas Deliveries to Residential Consumers, by State, 1995-1997 . . . . .	30
16. Natural Gas Deliveries to Commercial Consumers, by State, 1995-1997 . . . . .	34
17. Natural Gas Deliveries to Industrial Consumers, by State, 1995-1997 . . . . .	38
18. Natural Gas Deliveries to Electric Utility Consumers, by State, 1995-1997 . . . . .	42
19. Natural Gas Deliveries to All Consumers, by State, 1995-1997 . . . . .	46
20. Average City Gate Price, by State, 1995-1997 . . . . .	50
21. Average Price of Natural Gas Delivered to Residential Consumers, by State, 1995-1997 . . . . .	53
22. Average Price of Natural Gas Sold to Commercial Consumers, by State, 1995-1997 . . . . .	56
23. Average Price of Natural Gas Sold to Industrial Consumers, by State, 1995-1997 . . . . .	59

24.	Average Price of Natural Gas Delivered to Electric Utility Consumers, by State, 1996-1997 . . . .	62
25.	Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1995-1997 . . . . .	65
26.	Gas Home-Customer-Weighted Heating Degree Days . . . . .	72
A1.	Methodology for Reporting Initial Monthly Natural Gas Supply and Disposition Data . . . . .	73
C1.	Standard Error for Natural Gas Deliveries and Price to Consumers by State, November 1997 . .	91

## Illustrations

	<b>Page</b>
1. Production and Consumption of Natural Gas in the United States, 1994-1998 . . . . .	9
2. Natural Gas Deliveries to Consumers in the United States, 1994-1998 . . . . .	11
3. Average Price of Natural Gas Delivered to Consumers in the United States, 1993-1997 . . . . .	13
4. Average Price of Natural Gas in the United States, 1993-1997 . . . . .	13
5. Underground Natural Gas Storage in the United States, 1995-1998 . . . . .	21
6. Percentage of Total Deliveries Represented by Onsystem Sales, 1993-1997 . . . . .	71

# Highlights

## Overview

This issue of the *Natural Gas Monthly* (NGM) presents the most recent estimates of natural gas data from the Energy Information Administration. Estimates extend through February 1998 for many data series, and through November 1997 for most natural gas prices. Highlights of the natural gas data contained in this issue are:

- Preliminary estimates for January and February 1998 show that dry natural gas production, net imports, and consumption are all within 1 percent of their levels in 1997.
- Warmer-than-normal weather in recent months has resulted in lower consumption of natural gas by the residential sector and lower net withdrawals of gas from underground storage facilities compared with a year ago. This has resulted in an estimate of the amount of working gas in storage at the end of February 1998 that is 18 percent higher than in February 1997.
- The national average natural gas wellhead price is estimated to be \$3.05 per thousand cubic feet in November 1997, 7 percent higher than in October. The cumulative average wellhead price for January through November 1997 is estimated to be \$2.42 per thousand cubic feet, 17 percent above that of the same period in 1996. This price increase is far less than the 36-percent rise that occurred between 1995 and 1996.

## Supply

Both production and imports of natural gas during the first 2 months of 1998 are close to 1997 levels, but warmer-than-normal weather has led to lower withdrawals of natural gas from underground storage

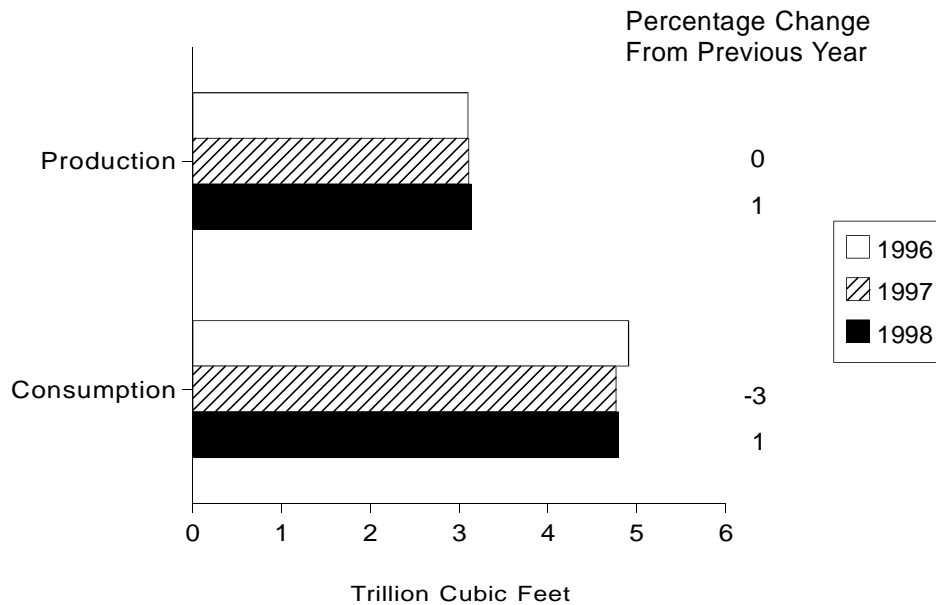
facilities. The latest monthly estimate of dry natural gas production is 1,486 billion cubic feet in February 1998, a level that is equivalent to 53.1 billion cubic feet per day (Table 1). For January and February combined, dry natural gas production is 1 percent higher in 1998 than in 1997 (Figure HI1). Net natural gas imports for February 1998 are estimated to be 232 billion cubic feet, or 8.3 billion cubic feet per day (Table 2). This level is 1 billion cubic feet higher than in February 1997. For the first 2 months of 1998, net imports of natural gas are 3 billion cubic feet lower than in 1997.

Net withdrawals of natural gas from storage in February 1998 are estimated to be 350 billion cubic feet, only 2 percent lower than in February 1997 (Table 10). However, estimated withdrawals during January 1998 were 31 percent below those of January 1997. For the first 4 months of this heating season, November 1997 through February 1998, net storage withdrawals are estimated to be 8 percent below those of the same period a year ago. This leaves an estimated 1,350 billion cubic feet of working gas in underground storage at the end of February 1998, 18 percent more than a year ago (Figure HI2).

## End-Use Consumption

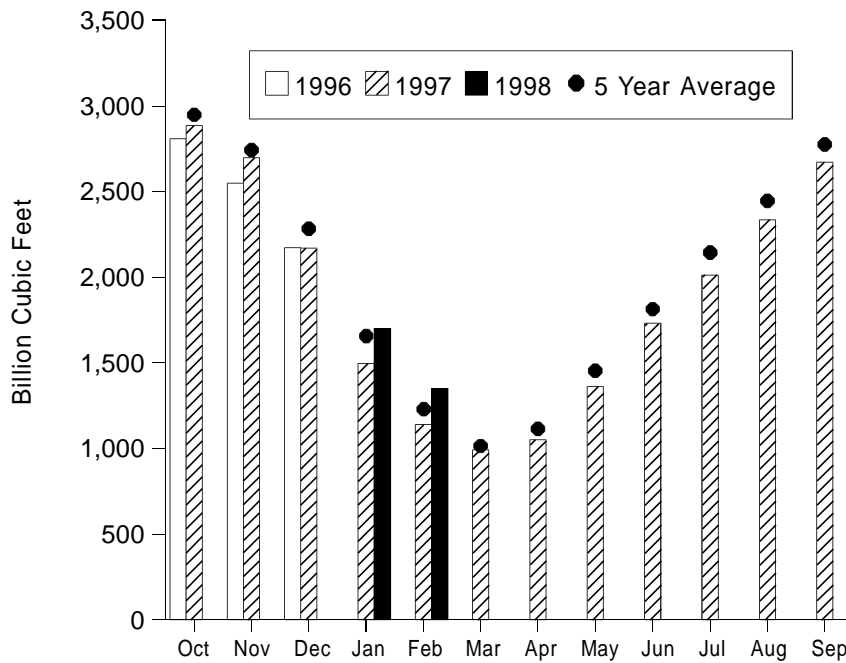
Warmer-than-normal temperatures across the Nation, generally attributed to the effects of El Nino in the Pacific, are having an impact on residential natural gas consumption this winter. Still, total end-use consumption in January and February 1998 is keeping pace with that of 1997. The most recent estimate is 2,085 billion cubic feet in February 1998, just 6 billion cubic feet higher than in February 1997 (Table 3).

**Figure HI1. Natural Gas Production and Consumption, January-February, 1996-1998**



Source: Table 2.

**Figure HI2. Working Gas in Underground Storage in the United States, 1996-1998**



Note: The 5-year average is calculated using the latest available monthly data. For example, the December average is calculated from December storage levels for 1993 to 1997 while the January average is calculated from January levels for 1994 to 1998. Data are reported as of the end of the month, thus October data represent the beginning of the heating season.

Sources: Form EIA-191, "Underground Natural Gas Storage Report," Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition," and Short-Term Integrated Forecasting System.



Heating degree days have been lower across the Nation this heating season compared with a year ago (Table 26). The weather was particularly warm in January 1998 when the Nation had 20 percent fewer heating degree days than normal and 18 percent fewer than in January 1997. The East North Central and Middle Atlantic Census Divisions, which alone accounted for 49 percent of residential consumption in 1996, had 22 and 21 percent fewer heating degree days, respectively, in January 1998 than in January 1997. Estimates of residential consumption of natural gas in both January and February 1998 are 4 percent lower than in 1997. The estimate for February 1998 is 734 billion cubic feet.

The commercial sector, like the residential, largely uses natural gas for space heating. Commercial consumption is estimated to be 426 billion cubic feet in February 1998, just 3 billion cubic feet above the February 1997 level.

During the first 2 months of 1998, the industrial sector has consumed 2.6 percent more natural gas than in 1997. Lower consumption in the residential sector may have provided industrial users with easier access to the pipeline transportation system during a time of the year when residential and commercial customers usually receive the highest priority service.

Estimates of natural gas consumption by electric utilities are available through November 1997. Cumulatively through November, electric utilities consumed 6 percent more natural gas in 1997 than in 1996 (Figure HI3). The increase has come even though the average price paid by electric utilities for natural gas in 1997 averaged 4 percent higher for January through October 1997 compared with 1996. But, this increase was much less than the 31-percent increase in prices that had occurred in 1996 for the same period.

## Prices

The average natural gas wellhead price is estimated to have increased in November 1997, but at a slower rate

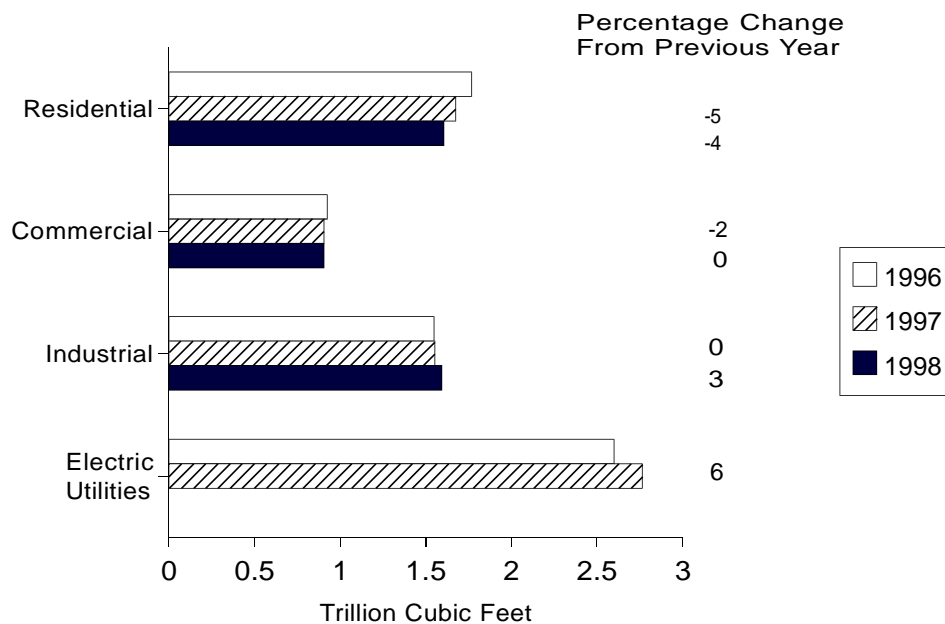
than had occurred in October. The November 1997 price estimate is \$3.05 per thousand cubic feet, 7 percent higher than in October 1997 (Table 4). In contrast, the October price of \$2.85 per thousand cubic feet was 24 percent higher than the September estimate (as revised). Both futures and average spot prices at the Henry Hub collapsed in mid-November, which is reflected in the smaller increase in the average wellhead price. Cumulatively for January through November 1997, the average wellhead price is estimated to be \$2.42 per thousand cubic feet, 17 percent higher than for the same period of 1996.

The way end-use natural gas prices responded to changes in wellhead prices in 1997 contrasted with the pattern seen in 1996. This occurred partly because the different end-use sectors respond to changes in the wellhead price at different rates. The wellhead price is usually more than half the average price paid by industrial companies and electric utilities, thus changes in the wellhead price have a large impact on the prices paid in these sectors. While wellhead price changes are passed through to residential and commercial customers as well, the resulting percentage change in prices is smaller because the wellhead price is often less than half the final prices paid in these sectors. Also, to protect residential users from the volatility of wellhead prices, many State public utility commissions require local distribution companies to phase in any large price increases over many months.

The cumulative average industrial sector price<sup>1</sup> for January through November in 1996 was 27 percent higher than in 1995, responding to a 36-percent increase in the average wellhead price for the same period. In contrast, the average price paid by residential users increased only 3 percent in 1996. For January through November in 1997, the estimated average price paid by industrial companies increased 7 percent as the average wellhead price increased 17 percent. Yet, the average residential price increased 10 percent, reflecting, in part, the delayed reaction in this sector to the rise in the wellhead price in 1996 (Figure HI4).

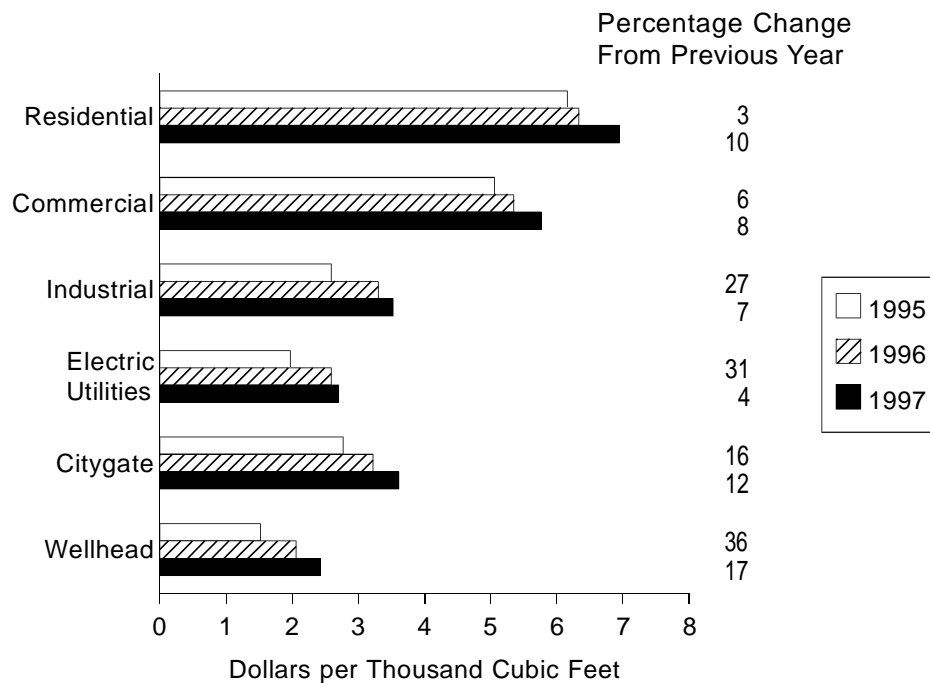
<sup>3</sup>End-use prices in the residential, commercial, and industrial sectors are for onsystem gas sales only. While monthly onsystem sales are nearly 100 percent of residential deliveries, in 1997 they have been from 53 to 73 percent of commercial deliveries and only 13 to 19 percent of industrial deliveries (Table 4).

**Figure HI3. Natural Gas Delivered to Consumers, January-February, 1996-1998**



Note: The reporting of electric utility deliveries is 3 months behind the reporting of other deliveries.  
Source: Table 3.

**Figure HI4. Average Delivered and Wellhead Natural Gas Prices, January-November 1995-1997**

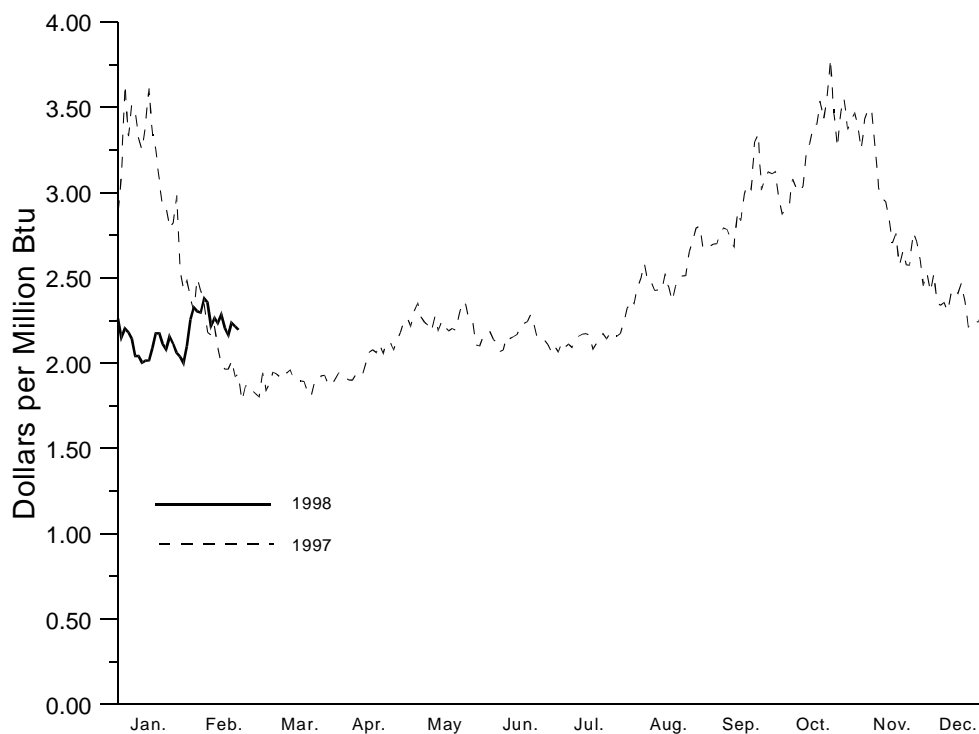


Note: Commercial and industrial average prices reflect onsystem sales only. The reporting of electric utility prices is 1 month behind the reporting of other prices..  
Source: Table 4.

More recent prices from futures market trading at the Henry Hub show that lower prices generally have been sustained since they dropped in November 1997 (Figure HI5). In early January 1998, the futures settlement price was more than \$1.00 per million Btu lower than it had been in January 1997. This is because during the 1996-97

heating season, futures prices followed the more usual pattern of being high in the winter and not falling until February as the end of heating season approached. Thus, futures settlement prices in February 1998 are more comparable to those of last year than they had been in January 1998.

**Figure HI5. Daily Futures Settlement Prices at the Henry Hub**



Note: The futures price is for the nearby month contract, that is, for the next contract to terminate trading. Contracts are traded on the New York Mercantile Exchange.

Source: Commodity Futures Trading Commission, Division of Economic Analysis.

**Table 1. Summary of Natural Gas Production in the United States, 1992-1998**  
(Billion Cubic Feet)

Year and Month	Gross Withdrawals	Repressuring	Nonhydrocarbon Gases Removed <sup>a</sup>	Vented and Flared	Marketed Production (Wet)	Extraction Loss <sup>b</sup>	Dry Gas Production <sup>c</sup>
<b>1992 Total</b> .....	22,132	2,973	280	168	18,712	872	17,840
<b>1993 Total</b> .....	22,726	3,103	414	227	18,982	886	18,095
<b>1994 Total</b> .....	23,581	3,231	412	228	19,710	889	18,821
<b>1995 Total</b> .....	23,744	3,565	388	284	19,506	908	18,599
<b>1996</b>							
January .....	2,052	310	44	26	1,673	81	1,591
February .....	1,941	294	41	24	1,580	77	1,504
March .....	2,054	313	45	23	1,674	81	1,592
April .....	2,003	289	42	22	1,650	80	1,570
May .....	2,025	281	42	23	1,679	81	1,598
June .....	1,962	276	36	16	1,634	79	1,555
July .....	2,008	271	42	24	1,672	81	1,591
August .....	2,021	281	45	24	1,671	81	1,590
September .....	1,958	283	44	22	1,609	78	1,531
October .....	2,011	306	44	23	1,638	79	1,558
November .....	1,984	299	47	23	1,615	78	1,537
December .....	2,032	307	46	23	1,656	80	1,576
<b>Total</b> .....	24,052	3,510	518	272	19,751	958	18,793
<b>1997</b>							
January .....	RE <sup>2</sup> 2,094	E <sup>3</sup> 327	41	E <sup>21</sup>	RE <sup>1</sup> 1,704	R <sup>79</sup>	R <sup>1</sup> 1,625
February .....	RE <sup>4</sup> 1,910	E <sup>3</sup> 301	38	E <sup>19</sup>	RE <sup>1</sup> 1,553	R <sup>72</sup>	R <sup>1</sup> 1,480
March .....	RE <sup>2</sup> 2,098	E <sup>3</sup> 322	R <sup>43</sup>	E <sup>23</sup>	RE <sup>1</sup> 1,711	80	R <sup>1</sup> 1,631
April .....	RE <sup>4</sup> 1,985	E <sup>2</sup> 296	R <sup>42</sup>	E <sup>21</sup>	RE <sup>1</sup> 1,626	76	R <sup>1</sup> 1,550
May .....	RE <sup>2</sup> 2,070	E <sup>3</sup> 313	R <sup>42</sup>	E <sup>21</sup>	RE <sup>1</sup> 1,693	79	R <sup>1</sup> 1,614
June .....	RE <sup>4</sup> 1,967	E <sup>2</sup> 294	R <sup>40</sup>	E <sup>20</sup>	RE <sup>1</sup> 1,612	75	R <sup>1</sup> 1,537
July .....	RE <sup>2</sup> 2,030	E <sup>2</sup> 295	R <sup>42</sup>	E <sup>22</sup>	RE <sup>1</sup> 1,672	78	R <sup>1</sup> 1,594
August .....	RE <sup>2</sup> 2,010	E <sup>2</sup> 283	RE <sup>42</sup>	E <sup>22</sup>	RE <sup>1</sup> 1,664	78	R <sup>1</sup> 1,586
September .....	RE <sup>4</sup> 1,981	RE <sup>2</sup> 294	RE <sup>42</sup>	E <sup>21</sup>	RE <sup>1</sup> 1,624	76	R <sup>1</sup> 1,548
October .....	RE <sup>2</sup> 2,040	RE <sup>3</sup> 318	RE <sup>44</sup>	RE <sup>23</sup>	RE <sup>1</sup> 1,656	R <sup>77</sup>	R <sup>1</sup> 1,579
November .....	RE <sup>2</sup> 2,023	E <sup>3</sup> 300	RE <sup>43</sup>	E <sup>22</sup>	E <sup>1</sup> 1,658	E <sup>77</sup>	E <sup>1</sup> 1,581
December .....	RE <sup>2</sup> 2,102	RE <sup>3</sup> 317	RE <sup>45</sup>	RE <sup>23</sup>	E <sup>1</sup> 1,717	RE <sup>80</sup>	RE <sup>1</sup> 1,637
<b>Total</b> .....	RE <sup>24</sup> 3,310	RE <sup>3</sup> 3,660	RE <sup>504</sup>	RE <sup>258</sup>	RE <sup>19</sup> 8,889	RE <sup>927</sup>	RE <sup>18</sup> 9,62
<b>1998</b>							
<i>January(STIFS)</i> .....	NA	NA	NA	NA	E <sup>1</sup> 1,732	E <sup>84</sup>	E <sup>1</sup> 1,648
<i>February(STIFS)</i> .....	NA	NA	NA	NA	E <sup>1</sup> 1,562	E <sup>76</sup>	E <sup>1</sup> 1,486
<b>1998 YTD</b> .....	NA	NA	NA	NA	E <sup>3</sup> 2,294	E <sup>160</sup>	E <sup>3</sup> 1,34
<b>1997 YTD</b> .....	E <sup>4</sup> 4,004	E <sup>6</sup> 28	E <sup>79</sup>	E <sup>40</sup>	E <sup>3</sup> 2,257	E <sup>152</sup>	E <sup>3</sup> 1,105
<b>1996 YTD</b> .....	E <sup>3</sup> 3,993	E <sup>6</sup> 05	E <sup>85</sup>	E <sup>50</sup>	E <sup>3</sup> 2,253	158	3,095

<sup>a</sup> See Appendix A, Explanatory Note 1, for a discussion of data on Nonhydrocarbon Gases Removed.

<sup>b</sup> Extraction loss is only collected on an annual basis. Annually it is between 4 and 5 percent of marketed production. Monthly extraction loss is estimated from monthly marketed production by assuming that the preceding annual percentage remains constant for the next twelve months.

<sup>c</sup> Equal to marketed production (wet) minus extraction loss.

R = Revised Data.

E = Estimated Data.

RE = Revised Estimated Data.

NA = Not Available.

Notes: Data for 1992 through 1996 are final. All other data are preliminary unless otherwise indicated and contain estimates for selected States (see Table 7). Estimates for the most recent two months are derived from the Short-Term Integrated Forecasting System (STIFS). Geographic coverage is the 50 States and the District of Columbia. Totals may not equal sum of components because of independent rounding.

Sources: 1992-1996: Energy Information Administration (EIA), *Natural Gas Annual 1996*. January 1997 through current month: Form EIA-895, "Monthly Quantity of Natural Gas Report," STIFS, and EIA estimates. See Appendix A, Explanatory Notes 1, 3, and 6, for discussion of computation and estimation procedures and revision policies.

**Table 2. Supply and Disposition of Dry Natural Gas in the United States, 1992-1998**  
(Billion Cubic Feet)

Year and Month	Dry Gas Production	Supplemental Gaseous Fuels <sup>a</sup>	Net Imports	Net Storage Withdrawals <sup>b</sup>	Balancing Item <sup>c</sup>	Consumption <sup>d</sup>
<b>1992 Total</b> .....	17,840	118	1,921	173	-508	19,544
<b>1993 Total</b> .....	18,095	119	2,210	-36	-110	20,279
<b>1994 Total</b> .....	18,821	111	2,462	-286	-400	20,708
<b>1995 Total</b> .....	18,599	110	2,687	415	-230	21,581
<b>1996</b>						
January .....	1,591	12	249	723	-2	2,574
February .....	1,504	11	221	462	138	2,335
March .....	1,592	11	226	333	46	2,209
April .....	1,570	9	227	-119	139	1,826
May .....	1,598	6	244	-339	67	1,576
June .....	1,555	8	214	-388	65	1,454
July .....	1,591	8	222	-382	-3	1,436
August .....	1,590	8	221	-358	4	1,465
September .....	1,531	8	227	-379	12	1,399
October .....	1,558	9	236	-210	-62	1,531
November .....	1,537	10	238	272	-161	1,896
December .....	1,576	10	259	387	35	2,266
<b>Total</b> .....	18,793	109	2,784	2	279	21,967
<b>1997</b>						
January .....	<sup>R</sup> 1,625	13	264	684	<sup>R</sup> -66	2,520
February .....	<sup>R</sup> 1,480	11	231	358	<sup>R</sup> 168	<sup>R</sup> 2,249
March .....	<sup>R</sup> 1,631	<sup>R</sup> 10	243	155	<sup>R</sup> 52	2,092
April .....	<sup>R</sup> 1,550	9	221	-58	<sup>R</sup> 61	<sup>R</sup> 1,783
May .....	<sup>R</sup> 1,614	9	229	-321	<sup>R</sup> 61	1,593
June .....	<sup>R</sup> 1,537	7	226	-364	<sup>R</sup> 24	<sup>R</sup> 1,430
July .....	<sup>R</sup> 1,594	8	<sup>R</sup> 222	-281	<sup>R</sup> -1	<sup>R</sup> 1,542
August .....	<sup>R</sup> 1,586	9	<sup>R</sup> 231	-322	<sup>R</sup> 14	<sup>R</sup> 1,517
September .....	<sup>R</sup> 1,548	<sup>R</sup> 7	<sup>R</sup> 232	-336	<sup>R</sup> -12	<sup>R</sup> 1,439
October .....	<sup>R</sup> 1,579	9	<sup>RE</sup> 232	-211	<sup>R</sup> -80	<sup>R</sup> 1,529
November .....	<sup>E</sup> 1,581	<sup>E</sup> 11	<sup>RE</sup> 241	189	<sup>R</sup> -127	<sup>R</sup> 1,895
December .....	<sup>RE</sup> 1,637	<sup>E</sup> 12	<sup>E</sup> 243	<sup>R</sup> 533	<sup>RE</sup> -31	<sup>E</sup> 2,394
<b>Total</b> .....	<sup>RE</sup> 18,962	<sup>RE</sup> 116	<sup>RE</sup> 2,815	<sup>R</sup> 27	<sup>RE</sup> 63	<sup>RE</sup> 21,983
<b>1998</b>						
<b>January(STIFS)</b> .....	<sup>E</sup> 1,648	<sup>E</sup> 13	<sup>E</sup> 260	<sup>RE</sup> 470	<sup>RE</sup> 154	<sup>E</sup> 2,545
<b>February(STIFS)</b> .....	<sup>E</sup> 1,486	<sup>E</sup> 11	<sup>E</sup> 232	<sup>E</sup> 350	<sup>E</sup> 172	<sup>E</sup> 2,251
<b>1998 YTD</b> .....	<sup>E</sup> 3,134	<sup>E</sup> 25	<sup>E</sup> 492	<sup>E</sup> 820	<sup>E</sup> 325	<sup>E</sup> 4,796
<b>1997 YTD</b> .....	<sup>E</sup> 3,105	<sup>E</sup> 23	495	<sup>E</sup> 1,042	103	<sup>E</sup> 4,768
<b>1996 YTD</b> .....	3,095	23	470	1,184	136	4,909

<sup>a</sup> Supplemental gaseous fuels data are only collected on an annual basis except for the Dakota Gasification Inc. coal gasification facility which provides data each month. The ratio of annual supplemental fuels (excluding Dakota Gasification Inc.) to the sum of dry gas production, net imports, and net withdrawals from storage is calculated. This ratio, which varies between .0025 and .0037, is applied to the monthly sum of these three elements. The Dakota Gasification Inc. monthly value is added to the result to produce the monthly supplemental fuels estimate.

<sup>b</sup> Monthly and annual data for 1991 through 1996 include underground storage and liquefied natural gas storage. Data for January 1997 forward include underground storage only. See Appendix A, Explanatory Note 7 for discussion of computation procedures.

<sup>c</sup> Represents quantities lost and imbalances in data due to differences among data sources. See Appendix A, Explanatory Note 9, for full discussion.

<sup>d</sup> Consists of pipeline fuel use, lease and plant fuel use, vehicle fuel, and deliveries to consuming sectors as shown in Table 3.

<sup>R</sup> = Revised Data.

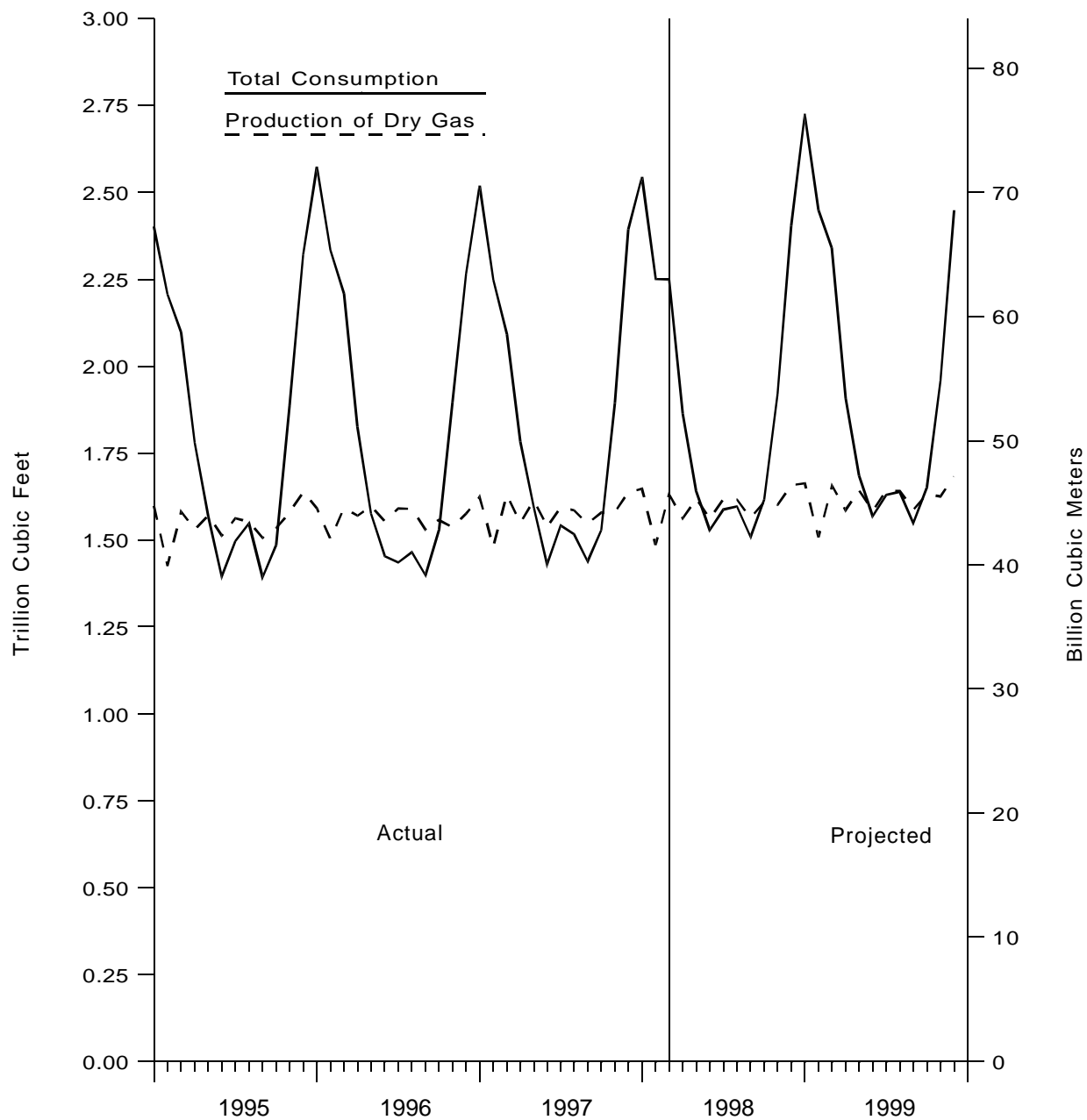
<sup>E</sup> = Estimated Data.

<sup>RE</sup> = Revised Estimated Data.

Notes: Data for 1992 through 1996 are final. All other data are preliminary unless otherwise indicated. Estimates for the most recent two months are derived from the Short-Term Integrated Forecasting System (STIFS). Geographic coverage is the 50 States and the District of Columbia. Totals may not equal sum of components because of independent rounding.

Sources: 1992-1996: Energy Information Administration (EIA), *Natural Gas Annual 1996*, 1994-1995: EIA: Form EIA-627, "Annual Quantity and Value of Natural Gas Report" (1995 data only), Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," Form EIA-191, "Monthly Underground Gas Storage Report," Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas," Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," EIA computations and *Natural Gas Annual 1996*. January 1997 through current month: EIA, Form EIA-895, "Monthly Quantity of Natural Gas Report," Form EIA-857, Form EIA-191, EIA computations, and estimates, Short-Term Integrated Forecasting System (STIFS) computations, and Office of Fossil Energy, U.S. Department of Energy, Natural Gas Imports and Exports. See Appendix A for discussion of computation and estimation procedures and revision policies.

**Figure 1. Production and Consumption of Natural Gas in the United States, 1995-1999**



Sources: 1995 through the current month: Table 2. Projected data: Energy Information Administration, *Short-Term Energy Outlook* (October 1997).

**Table 3. Natural Gas Consumption in the United States, 1992-1998**

(Billion Cubic Feet)

Year and Month	Lease and Plant Fuel <sup>a</sup>	Pipeline Fuel <sup>b</sup>	Delivered to Consumers					Total Consumption
			Residential	Commercial	Industrial	Electric Utilities	Total	
<b>1992 Total</b> .....	1,171	588	4,690	<sup>c</sup> 2,803	7,527	2,766	17,786	19,544
<b>1993 Total</b> .....	1,172	624	4,956	<sup>c</sup> 2,863	7,981	2,682	18,483	20,279
<b>1994 Total</b> .....	1,124	685	4,848	<sup>c</sup> 2,897	8,167	2,987	18,899	20,708
<b>1995 Total</b> .....	1,220	700	4,850	<sup>c</sup> 3,034	8,580	3,197	19,660	21,581
<b>1996</b>								
January .....	106	85	934	480	800	168	2,382	2,574
February .....	101	77	831	443	747	137	2,158	2,335
March .....	106	72	705	387	781	156	2,030	2,209
April .....	104	59	474	284	736	170	1,663	1,826
May .....	106	50	271	183	701	264	1,420	1,576
June .....	102	46	162	133	710	299	1,305	1,454
July .....	105	46	124	126	677	358	1,285	1,436
August .....	105	47	118	123	704	367	1,312	1,465
September .....	102	45	138	124	706	285	1,253	1,399
October .....	104	49	243	171	737	226	1,378	1,531
November .....	103	62	503	295	764	170	1,732	1,896
December .....	105	74	738	409	807	132	2,086	2,266
<b>Total</b> .....	1,250	711	5,241	<sup>c</sup> 3,161	8,870	2,732	20,006	21,967
<b>1997</b>								
January .....	107	82	908	480	804	139	2,331	2,520
February .....	<sup>R</sup> 97	73	766	<sup>R</sup> 423	747	143	<sup>R</sup> 2,079	<sup>R</sup> 2,249
March .....	<sup>R</sup> 107	68	604	359	764	189	1,917	2,092
April .....	102	58	<sup>R</sup> 433	267	731	193	<sup>R</sup> 1,624	<sup>R</sup> 1,783
May .....	106	52	285	206	713	231	1,435	1,593
June .....	101	46	<sup>R</sup> 160	<sup>R</sup> 148	680	295	1,283	<sup>R</sup> 1,430
July .....	105	50	131	<sup>R</sup> 138	<sup>R</sup> 692	427	<sup>R</sup> 1,388	<sup>R</sup> 1,542
August .....	<sup>R</sup> 104	49	119	<sup>R</sup> 137	<sup>R</sup> 717	390	<sup>R</sup> 1,364	<sup>R</sup> 1,517
September .....	102	47	132	140	687	332	1,291	<sup>R</sup> 1,439
October .....	104	50	<sup>R</sup> 236	187	707	246	1,376	<sup>R</sup> 1,529
November .....	<sup>R</sup> 104	<sup>R</sup> 61	<sup>R</sup> 505	<sup>R</sup> 317	<sup>R</sup> 728	<sup>R</sup> 180	1,730	<sup>R</sup> 1,895
<b>December(STIFS)</b> .....	<sup>E</sup> 113	<sup>E</sup> 77	<sup>E</sup> 756	<sup>E</sup> 434	<sup>E</sup> 827	NA	<sup>E</sup> 2,204	<sup>E</sup> 2,394
<b>Total</b> .....	<sup>RE</sup> 1,251	<sup>RE</sup> 711	<sup>RE</sup> 5,036	<sup>RE</sup> 3,237	<sup>RE</sup> 8,797	NA	<sup>RE</sup> 20,021	<sup>RE</sup> 21,983
<b>1998</b>								
<b>January(STIFS)</b> .....	<sup>E</sup> 110	<sup>E</sup> 81	<sup>E</sup> 869	<sup>E</sup> 479	<sup>E</sup> 827	NA	<sup>E</sup> 2,354	<sup>E</sup> 2,545
<b>February(STIFS)</b> .....	<sup>E</sup> 96	<sup>E</sup> 70	<sup>E</sup> 734	<sup>E</sup> 426	<sup>E</sup> 764	NA	<sup>E</sup> 2,085	<sup>E</sup> 2,251
<b>1998 YTD<sup>d</sup></b> .....	<sup>E</sup> 206	<sup>E</sup> 151	<sup>E</sup> 1,603	<sup>E</sup> 905	<sup>E</sup> 1,591	NA	<sup>E</sup> 4,439	<sup>E</sup> 4,796
<b>1997 YTD</b> .....	<sup>E</sup> 204	<sup>E</sup> 154	<sup>E</sup> 1,674	<sup>E</sup> 903	<sup>E</sup> 1,551	2,764	<sup>E</sup> 4,410	<sup>E</sup> 4,768
<b>1996 YTD</b> .....	207	161	1,765	923	1,547	2,600	4,540	4,909

<sup>a</sup> Plant fuel data are only collected on an annual basis and monthly lease fuel data are only collected annually. Lease and plant fuel estimates have been between 6 and 7 percent of marketed production annually. Monthly lease and plant fuel use is estimated from monthly marketed production by assuming that the preceding annual percentage remains constant for the next twelve months.

<sup>b</sup> Pipeline fuel use is only collected on an annual basis. Annually it is between 3 and 4 percent of total consumption. Monthly pipeline fuel data are estimated from monthly total consumption (excluding pipeline fuel) by assuming that the preceding annual percentage remains constant for the next twelve months.

<sup>c</sup> Vehicle fuel deliveries, in billion cubic feet, were 0.4 in 1991, 0.5 in 1992, 1.0 in 1993, 1.7 in 1994, 2.7 in 1995 and 2.9 in 1996.

<sup>d</sup> Year-to-date volume represents months for which volume information is available in the current year.

<sup>R</sup> = Revised Data.

<sup>E</sup> = Estimated Data.

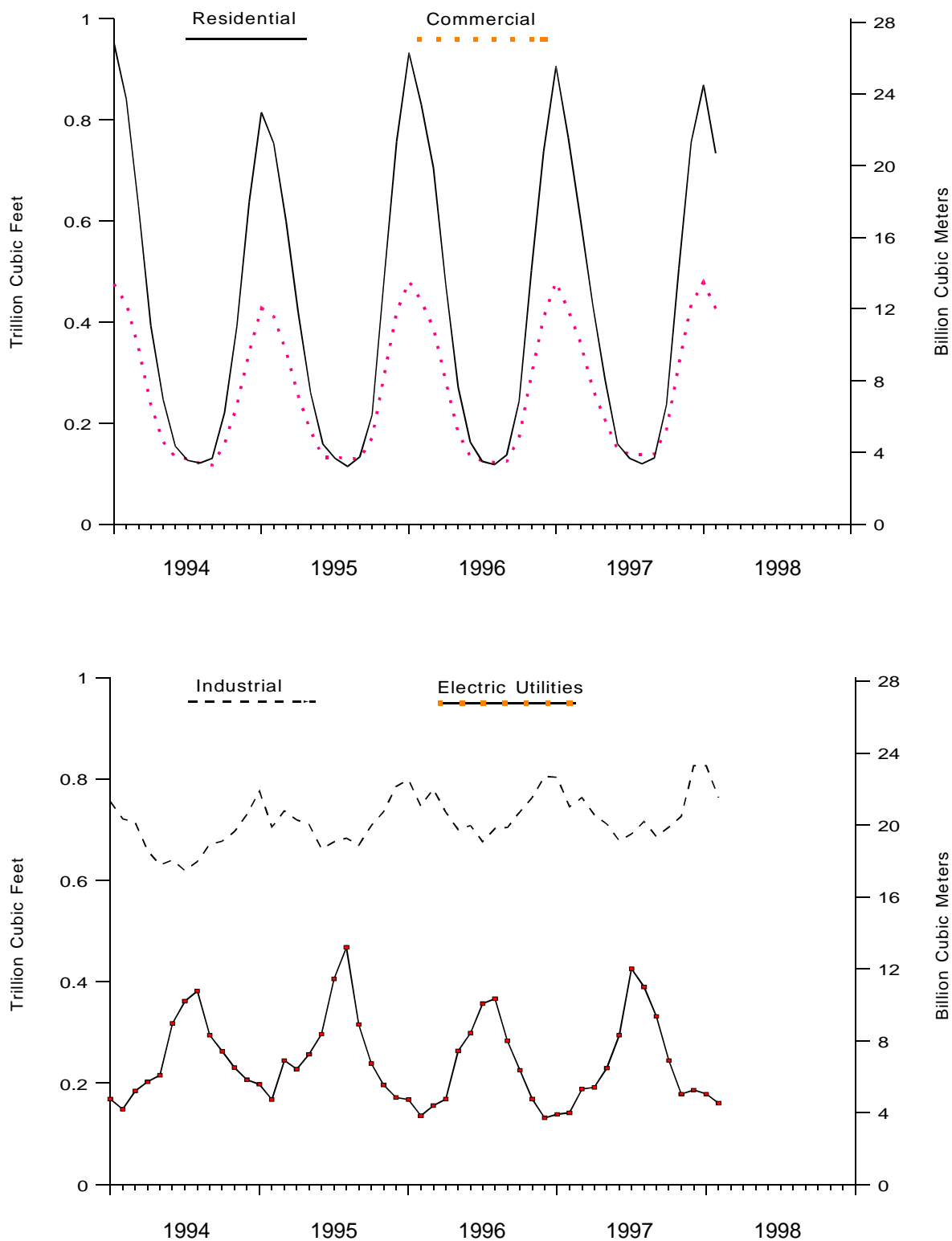
<sup>RE</sup> = Revised Estimated Data.

NA = Not Available.

Notes: Data for 1992 through 1996 are final. All other data are preliminary unless otherwise indicated. Estimates for the most recent three months are derived from the Short-Term Integrated Forecasting System (STIFS). Geographic coverage is the 50 States and the District of Columbia. Totals may not equal sum of components because of independent rounding. In 1996, consumption of natural gas for agricultural use is classified as industrial use. In 1995 and earlier years, agricultural use was classified as commercial use. See Explanatory Note 5 for further explanation.

Sources: 1992-1996: Energy Information Administration (EIA): Form EIA-627, "Annual Quantity and Value of Natural Gas Report," (thru 1994), Form EIA-895 "Monthly Quantity of Natural Gas Report," (1995 forward), Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," Form EIA-759, "Monthly Power Plant Report," EIA computations, and *Natural Gas Annual 1996*. January 1997 through the current month: EIA: Form 895, "Monthly Quantity of Natural Gas Report," Form EIA-857, Form EIA-759, and STIFS computations. See Appendix A, Explanatory Note 5, for computation procedures and revision policy.

**Figure 2. Natural Gas Deliveries to Consumers in the United States, 1994-1998**



Sources: *Natural Gas Annual*, Form EIA-857, and Form EIA-759.



**Table 4. Selected National Average Natural Gas Prices, 1991-1997**  
(Dollars per Thousand Cubic Feet)

Year and Month	Wellhead Price <sup>a</sup>	City Gate Price	Delivered to Consumers					
			Residential Price	Commercial		Industrial		Electric Utilities Price
				Price	% of Total <sup>b</sup>	Price	% of Total <sup>b</sup>	
1991 Annual Average .....	1.64	2.90	5.82	4.81	85.1	2.69	32.7	2.18
1992 Annual Average .....	1.74	3.01	5.89	4.88	83.2	2.84	30.3	2.36
1993 Annual Average .....	2.04	3.21	6.16	5.22	83.9	3.07	29.7	2.61
1994 Annual Average .....	1.85	3.07	6.41	5.44	79.3	3.05	25.5	2.28
1995								
January .....	1.62	2.79	5.85	5.23	81.6	2.95	27.3	2.13
February .....	1.48	2.71	5.76	5.14	81.7	2.85	27.4	2.00
March .....	1.47	2.74	5.84	5.12	81.2	2.74	26.5	1.92
April .....	1.52	2.72	6.06	5.08	77.2	2.57	25.4	1.97
May .....	1.55	2.80	6.54	5.04	71.8	2.54	23.6	2.06
June .....	1.58	2.89	7.49	5.16	71.4	2.44	24.5	2.06
July .....	1.43	2.89	7.82	5.03	67.3	2.34	22.2	1.90
August .....	1.43	2.87	8.13	4.99	66.6	2.26	21.8	1.84
September .....	1.52	2.89	7.73	4.98	67.9	2.42	22.0	1.95
October .....	1.54	2.83	6.62	4.82	69.7	2.44	22.5	2.09
November .....	1.61	2.67	5.61	4.77	75.6	2.68	24.7	2.22
December .....	1.84	2.83	5.54	5.00	79.2	3.07	25.0	2.58
Annual Average .....	1.55	2.78	6.06	5.05	76.7	2.71	24.5	2.02
1996								
January .....	2.05	3.14	5.64	5.29	83.4	3.61	23.1	2.87
February .....	1.89	3.16	5.82	5.25	83.8	3.61	23.6	3.07
March .....	1.95	3.17	5.93	5.36	81.7	3.52	23.3	2.73
April .....	2.08	3.22	6.27	5.34	79.3	3.42	21.4	2.68
May .....	2.01	3.18	6.84	5.40	73.9	3.14	19.6	2.52
June .....	2.08	3.41	7.83	5.43	69.3	3.13	17.6	2.59
July .....	2.25	3.49	8.64	5.46	67.3	3.17	19.1	2.69
August .....	2.10	3.46	8.73	5.56	65.9	3.05	18.1	2.57
September .....	1.85	3.05	7.99	5.46	66.9	2.77	17.6	2.24
October .....	1.94	2.94	7.05	5.33	68.8	2.89	18.1	2.37
November .....	2.50	3.46	6.37	5.40	76.1	3.57	19.0	3.04
December .....	3.26	4.18	6.47	5.78	78.4	4.20	20.7	3.98
Annual Average .....	2.17	3.34	6.34	5.40	77.6	3.42	20.2	2.69
1997								
January .....	<sup>E</sup> 3.66	4.27	6.71	6.08	<sup>R</sup> 72.5	<sup>R</sup> 4.61	<sup>R</sup> 18.5	4.04
February .....	<sup>E</sup> 2.60	3.78	6.75	<sup>R</sup> 6.04	<sup>R</sup> 71.9	<sup>R</sup> 4.20	<sup>R</sup> 16.8	2.98
March .....	<sup>E</sup> 1.72	3.06	6.49	<sup>R</sup> 5.68	<sup>R</sup> 68.6	3.39	<sup>R</sup> 16.4	2.30
April .....	<sup>E</sup> 1.82	<sup>R</sup> 2.94	6.53	<sup>R</sup> 5.45	<sup>R</sup> 66.3	<sup>R</sup> 3.02	16.0	2.30
May .....	<sup>E</sup> 2.04	3.16	<sup>R</sup> 6.78	<sup>R</sup> 5.38	<sup>R</sup> 59.4	2.95	<sup>R</sup> 15.7	2.41
June .....	<sup>E</sup> 2.18	3.44	<sup>R</sup> 8.13	<sup>R</sup> 5.68	<sup>R</sup> 56.6	3.10	15.2	2.52
July .....	<sup>E</sup> 2.15	3.61	8.46	<sup>R</sup> 5.48	<sup>R</sup> 54.8	2.96	<sup>R</sup> 13.6	2.44
August .....	<sup>E</sup> 2.21	<sup>R</sup> 3.45	<sup>R</sup> 8.71	<sup>R</sup> 5.44	<sup>R</sup> 53.1	2.96	<sup>R</sup> 13.0	2.54
September .....	<sup>RE</sup> 2.30	<sup>R</sup> 3.60	8.55	5.62	<sup>R</sup> 54.2	3.23	<sup>R</sup> 13.1	2.96
October .....	<sup>E</sup> 2.85	3.93	7.54	5.72	<sup>R</sup> 58.2	<sup>R</sup> 3.66	14.4	3.23
November .....	<sup>E</sup> 3.05	3.76	6.76	5.70	64.0	4.02	15.6	NA
1997 YTD <sup>c</sup> .....	<sup>E</sup> 2.42	3.61	6.94	5.76	65.1	3.52	15.3	2.70
1996 YTD .....	2.06	3.22	6.33	5.35	77.6	3.30	19.3	2.59
1995 YTD .....	1.52	2.77	6.16	5.06	76.3	2.59	24.0	1.97

<sup>a</sup> See Appendix A, Explanatory Note 8, of the *Natural Gas Monthly (NGM)* for discussion of wellhead prices.

<sup>b</sup> Percentage of total deliveries represented by onsystem sales, see Figure 6. See Table 24 for breakdown by State.

<sup>c</sup> Year-to-date price represents months for which price information is available in the current year.

<sup>R</sup> = Revised Data.

<sup>E</sup> = Estimated Data.

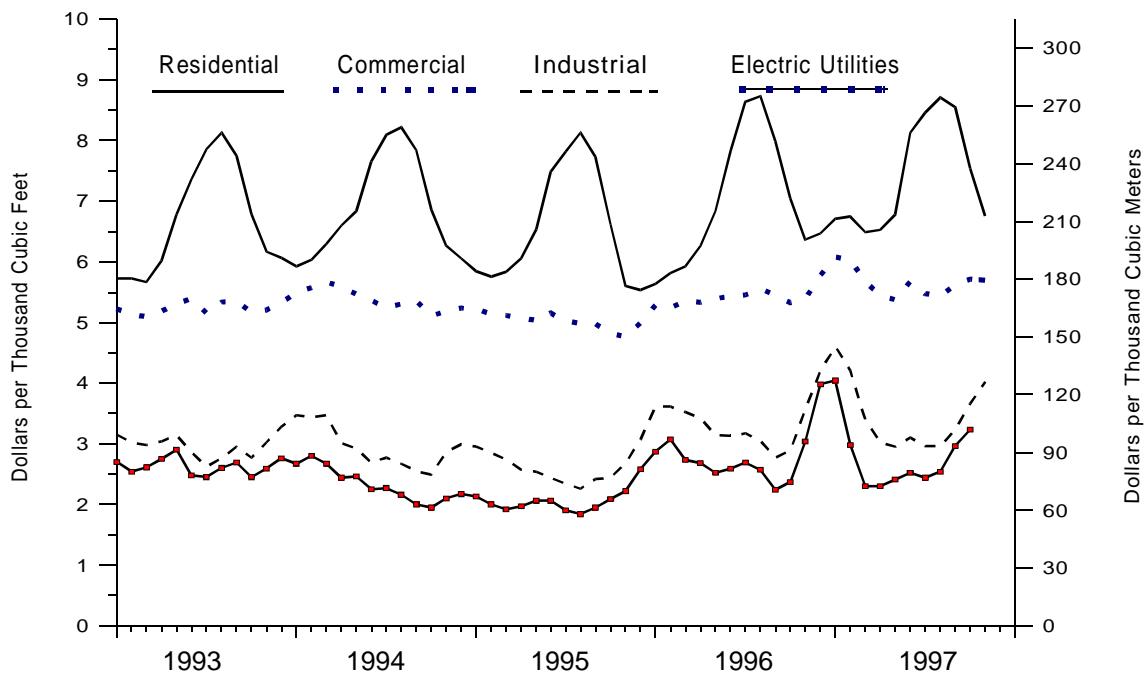
<sup>RE</sup> = Revised Estimated Data.

<sup>NA</sup> = Not Available.

Notes: Data for 1991 through 1996 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 States and the District of Columbia. In 1996, consumption of natural gas for agricultural use is classified as industrial use. In 1995 and earlier years, agricultural use was classified as commercial use. See Explanatory Note 5 for further explanation.

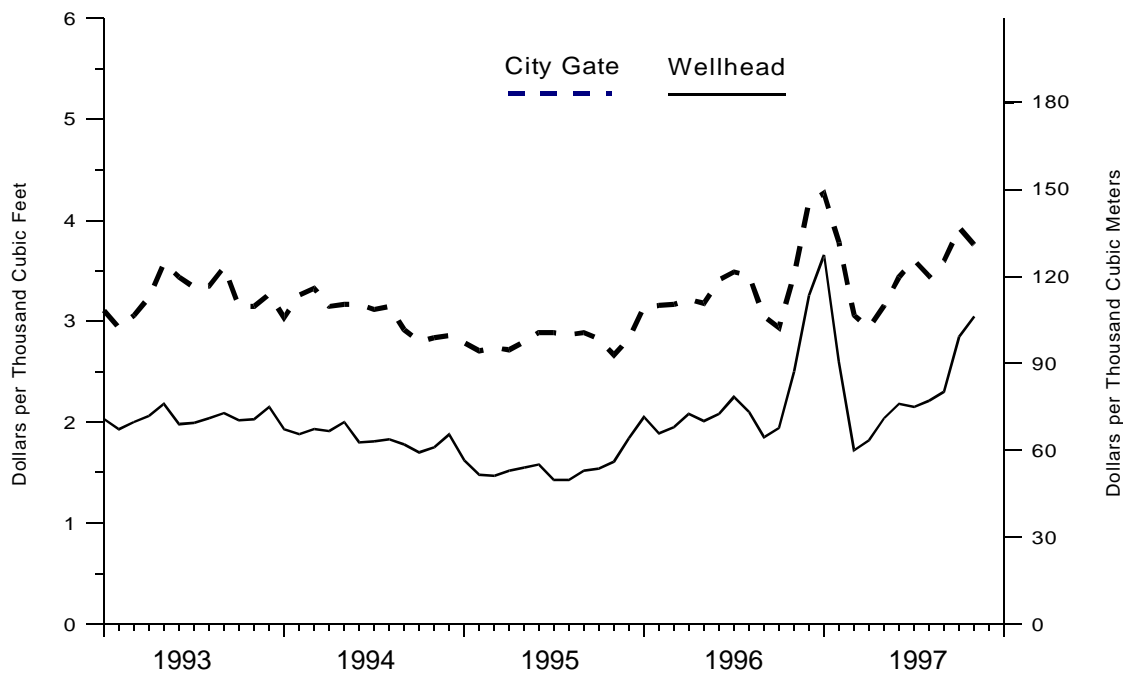
Sources: 1990-1996: Energy Information Administration (EIA) *Natural Gas Annual 1996*. 1997 forward: EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants," and EIA estimates. January 1997 through current month: See Appendix A, Explanatory Note 8 for estimation procedures and revision policy.

**Figure 3. Average Price of Natural Gas Delivered to Consumers in the United States, 1993-1997**



Source: Table 4.

**Figure 4. Average Price of Natural Gas in the United States, 1993-1997**



Source: Table 4.

**Table 5. U.S. Natural Gas Imports, by Country, 1991-1997**

(Volumes in Million Cubic Feet, Prices in Dollars per Thousand Cubic Feet)

Year and Month	Pipeline				LNG				Total	
	Canada		Mexico		Algeria		Other		Volume	Average Price
	Volume	Average Price	Volume	Average Price	Volume	Average Price	Volume	Average Price		
<b>1991 Total</b> .....	1,709,716	1.81	—	—	63,596	2.36	—	—	1,773,313	1.83
<b>1992 Total</b> .....	2,094,387	1.84	—	—	43,116	2.54	—	—	2,137,504	1.85
<b>1993 Total</b> .....	2,266,751	2.02	1,678	1.94	81,685	2.20	—	—	2,350,115	2.03
<b>1994 Total</b> .....	2,566,049	1.86	7,013	1.99	50,778	2.28	—	—	2,623,839	1.87
<b>1995</b>										
January .....	250,666	1.59	158	1.38	2,511	2.40	—	—	253,335	1.60
February .....	233,404	1.45	0	—	2,573	1.81	—	—	235,977	1.46
March .....	247,578	1.39	150	1.50	2,621	2.45	—	—	250,349	1.40
April .....	231,745	1.37	0	—	0	—	—	—	231,745	1.37
May .....	225,682	1.45	0	—	2,576	1.89	—	—	228,259	1.46
June .....	217,456	1.47	0	—	0	—	—	—	217,456	1.47
July .....	222,652	1.40	0	—	0	—	—	—	222,652	1.40
August .....	233,419	1.33	824	1.53	2,648	2.42	—	—	236,891	1.34
September .....	223,836	1.43	3,872	1.53	0	—	—	—	227,708	1.43
October .....	234,284	1.48	1,718	1.56	0	—	—	—	236,003	1.48
November .....	233,857	1.60	0	—	2,487	2.47	—	—	236,344	1.61
December .....	261,828	1.79	0	—	2,502	2.65	—	—	264,329	1.80
<b>Total</b> .....	2,816,408	1.48	6,722	1.53	17,918	2.30	—	—	2,841,048	1.49
<b>1996</b>										
January .....	259,656	2.08	1,499	2.03	2,460	2.81	—	—	263,615	2.09
February .....	230,546	1.94	698	2.14	2,512	2.79	—	—	233,756	1.95
March .....	237,668	1.91	1,259	2.34	2,599	3.06	—	—	241,526	1.92
April .....	230,928	1.86	1,369	2.18	4,559	2.43	—	—	236,857	1.87
May .....	245,522	1.70	4,024	2.14	2,612	2.58	—	—	252,158	1.72
June .....	225,875	1.70	711	2.35	0	—	—	—	226,587	1.70
July .....	232,908	1.82	1,313	2.58	2,642	3.00	—	—	236,864	1.84
August .....	235,199	1.80	30	1.70	2,629	2.56	—	—	237,858	1.80
September .....	234,206	1.60	770	1.69	0	—	<sup>a</sup> 2,524	3.34	237,500	1.62
October .....	241,294	1.68	1,110	2.37	5,116	2.96	—	—	247,520	1.71
November .....	245,795	2.25	982	2.85	5,031	2.59	—	—	251,807	2.26
December .....	263,681	3.00	96	3.30	5,164	2.51	<sup>a</sup> 2,425	3.57	271,366	3.00
<b>Total</b> .....	2,883,277	1.96	13,862	2.25	35,325	2.70	4,949	3.45	2,937,413	1.97
<b>1997</b>										
January .....	264,919	2.93	1,375	3.08	7,560	2.78	<sup>a</sup> 2,417	3.68	276,271	2.93
February .....	233,569	2.49	2,248	2.44	7,667	3.00	—	—	243,484	2.51
March .....	254,416	2.10	2,737	1.84	2,530	2.98	—	—	259,683	2.11
April .....	232,114	1.72	189	1.92	2,557	2.23	—	—	234,860	1.72
May .....	232,065	1.82	2,382	2.03	2,552	2.20	<sup>b</sup> 2,455	2.59	239,455	1.83
June .....	228,505	1.82	1,694	2.21	5,059	2.48	—	—	235,258	1.83
July .....	225,528	<sup>R</sup> 1.86	<sup>R</sup> 1,088	<sup>R</sup> 1.98	5,026	<sup>R</sup> 2.48	—	—	<sup>R</sup> 231,642	<sup>R</sup> 1.87
August .....	241,036	<sup>R</sup> 1.86	<sup>R</sup> 6	<sup>R</sup> 2.35	7,535	<sup>R</sup> 2.43	—	—	<sup>R</sup> 248,578	<sup>R</sup> 1.88
September .....	237,347	<sup>R</sup> 1.93	29	<sup>R</sup> 2.47	5,030	<sup>R</sup> 2.41	<sup>b</sup> 2,337	<sup>R</sup> 2.88	<sup>R</sup> 244,743	<sup>R</sup> 1.95
October .....	<sup>R</sup> 240,450	NA	<sup>E</sup> 1,000	NA	5,050	NA	—	—	<sup>RE</sup> 246,501	NA
November .....	<sup>RE</sup> 241,540	NA	<sup>E</sup> 1,000	NA	7,542	NA	<sup>b</sup> 4,893	NA	<sup>RE</sup> 254,975	NA
December .....	<sup>E</sup> 248,351	NA	<sup>E</sup> 1,000	NA	7,567	NA	—	—	<sup>E</sup> 256,918	NA
<b>Total</b> .....	<sup>E</sup> 2,879,842	NA	<sup>E</sup> 14,748	NA	65,675	NA	12,103	NA	<sup>E</sup> 2,972,368	NA

<sup>a</sup> Received from the United Arab Emirates.

<sup>b</sup> Received from Australia.

<sup>R</sup> = Revised Data.

<sup>E</sup> = Estimated Data.

<sup>RE</sup> = Revised Estimated Data.

NA = Not Available.

— = Not Applicable.

Sources: 1991-1994: Energy Information Administration, Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." January 1995 through the current month (except estimates): Office of Fossil Energy, U.S. Department of Energy, *Natural Gas Imports and Exports*. Estimated pipeline data (shown with an "E") are taken from data from the National Energy Board of Canada plus EIA estimates. LNG data: Industry reports.

**Table 6. U.S. Natural Gas Exports, by Country, 1991-1997**

(Volumes in Million Cubic Feet, Prices in Dollars per Thousand Cubic Feet)

Year and Month	Pipeline				LNG		Total	
	Canada		Mexico		Japan		Volume	Average Price
	Volume	Average Price	Volume	Average Price	Volume	Average Price		
<b>1991 Total</b> .....	14,791	1.91	60,448	1.76	54,005	3.71	129,244	2.59
<b>1992 Total</b> .....	67,777	1.83	95,973	1.90	52,532	3.43	216,282	2.25
<b>1993 Total</b> .....	44,518	2.14	39,676	2.02	55,989	3.34	140,183	2.59
<b>1994 Total</b> .....	52,556	2.42	46,500	1.68	62,682	3.18	161,738	2.50
<b>1995</b>								
January .....	2,518	2.00	5,576	1.54	5,541	3.35	13,635	2.36
February .....	2,016	2.02	5,542	1.32	5,557	3.38	13,115	2.30
March .....	2,387	1.92	6,670	1.36	5,573	3.39	14,630	2.22
April .....	2,457	1.84	5,941	1.49	3,741	3.47	12,138	2.17
May .....	1,931	2.01	6,848	1.58	3,698	3.54	12,477	2.23
June .....	2,106	1.91	7,945	1.59	5,556	3.59	15,606	2.34
July .....	2,446	1.82	6,526	1.39	5,581	3.58	14,552	2.30
August .....	2,558	1.77	3,431	1.29	7,531	3.47	13,520	2.60
September .....	3,336	2.03	2,378	1.47	5,656	3.36	11,370	2.58
October .....	2,929	1.91	5,588	1.63	3,733	3.30	12,250	2.21
November .....	1,627	2.21	3,535	1.65	7,518	3.29	12,679	2.69
December .....	1,244	2.43	1,303	1.82	5,599	3.31	8,146	2.94
<b>Total</b> .....	27,554	1.96	61,283	1.50	65,283	3.41	154,119	2.39
<b>1996</b>								
January .....	7,044	3.13	1,607	1.98	5,534	3.38	14,186	3.10
February .....	5,207	2.71	2,000	1.82	5,621	3.35	12,828	2.85
March .....	6,616	2.79	2,860	1.81	5,642	3.55	15,118	2.88
April .....	2,430	2.21	1,924	1.69	5,654	3.57	10,008	2.88
May .....	2,809	2.15	1,899	1.84	3,750	3.61	8,458	2.73
June .....	3,001	2.25	3,486	2.16	5,651	3.65	12,138	2.87
July .....	3,777	2.45	3,062	2.24	7,546	3.66	14,385	3.04
August .....	2,197	2.30	9,176	2.11	5,663	3.67	17,036	2.65
September .....	2,514	1.94	2,389	1.73	5,663	3.73	10,566	2.85
October .....	4,311	1.97	1,990	1.85	5,589	3.84	11,889	2.83
November .....	6,776	2.77	1,533	2.56	5,670	4.01	13,979	3.25
December .....	5,222	3.67	1,914	3.72	5,665	3.73	12,801	3.70
<b>Total</b> .....	51,905	2.67	33,840	2.11	67,648	3.65	153,393	2.97
<b>1997</b>								
January .....	4,193	4.08	2,220	4.07	5,604	4.25	12,017	4.16
February .....	5,169	3.02	1,666	2.32	5,596	4.29	12,431	3.50
March .....	9,117	2.06	1,493	1.55	5,675	4.22	16,285	2.76
April .....	5,167	1.78	3,046	1.83	5,660	4.06	13,873	2.72
May .....	4,108	2.09	2,177	1.96	3,812	3.98	10,097	2.77
June .....	3,162	2.28	2,579	2.14	3,786	4.22	9,527	3.01
July .....	<sup>R</sup> 3,257	<sup>R</sup> 2.14	<sup>R</sup> 3,122	<sup>R</sup> 2.17	3,756	<sup>R</sup> 3.66	<sup>R</sup> 10,135	<sup>R</sup> 2.71
August .....	<sup>R</sup> 3,820	<sup>R</sup> 2.16	<sup>R</sup> 6,282	<sup>R</sup> 2.37	7,532	<sup>R</sup> 3.62	<sup>R</sup> 17,634	<sup>R</sup> 2.85
September .....	<sup>R</sup> 3,128	<sup>R</sup> 2.37	<sup>R</sup> 6,070	<sup>R</sup> 2.60	3,767	<sup>R</sup> 3.72	<sup>R</sup> 12,965	<sup>R</sup> 2.87
October .....	<sup>RE</sup> 3,400	NA	<sup>RE</sup> 5,100	NA	5,675	NA	<sup>RE</sup> 14,175	NA
November .....	<sup>RE</sup> 3,400	NA	<sup>RE</sup> 5,100	NA	5,691	NA	<sup>RE</sup> 14,191	NA
December .....	<sup>E</sup> 3,400	NA	<sup>E</sup> 5,100	NA	5,631	NA	<sup>E</sup> 14,131	NA
<b>Total</b> .....	<sup>E</sup> 51,321	NA	<sup>E</sup> 43,955	NA	62,187	NA	<sup>E</sup> 157,463	NA

<sup>R</sup> = Revised Data.

<sup>E</sup> = Estimated Data.

<sup>RE</sup> = Revised Estimated Data.

NA = Not Available.

Sources: 1991-1994: Energy Information Administration, Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." January 1995 through the current month (except estimates): Office of Fossil Energy, U.S. Department of Energy, *Natural Gas Imports and Exports*. Estimated pipeline data (shown with an "E") are taken from data from the National Energy Board of Canada plus EIA estimates. LNG data: Industry reports.

**Table 7. Marketed Production of Natural Gas, by State, 1991-1997**  
(Million Cubic Feet)

Year and Month	Alabama <sup>b</sup>	Alaska	Arizona	California	Colorado	Florida	Kansas
<b>1991 Total</b> .....	170,847	437,822	1,225	378,384	285,961	4,884	628,459
<b>1992 Total</b> .....	355,099	443,597	771	365,632	323,041	6,657	658,007
<b>1993 Total</b> .....	388,024	430,350	597	315,851	400,985	7,085	686,347
<b>1994 Total</b> .....	515,272	555,402	752	309,427	453,207	7,486	712,730
<b>1995</b>							
January .....	43,456	43,391	43	24,674	47,253	559	64,211
February .....	39,652	38,966	40	22,028	41,958	570	60,635
March .....	43,734	43,037	43	23,829	45,291	598	59,382
April .....	42,727	39,714	42	22,819	45,021	578	59,555
May .....	44,169	39,308	44	23,055	45,187	604	61,639
June .....	42,737	35,781	40	22,145	42,589	535	58,686
July .....	45,521	36,246	50	22,545	43,042	537	59,830
August .....	45,244	35,724	58	22,584	43,105	502	58,451
September .....	37,523	36,488	53	22,276	41,295	508	53,756
October .....	45,123	39,695	52	24,100	45,563	475	58,743
November .....	44,954	39,324	48	24,188	45,440	497	60,691
December .....	44,820	41,874	44	25,312	37,338	502	65,856
<b>Total</b> .....	519,661	469,550	558	279,555	523,084	6,463	721,436
<b>1996</b>							
January .....	45,653	44,655	41	20,714	48,619	518	62,976
February .....	42,668	40,433	42	22,910	45,504	493	62,683
March .....	45,334	43,738	45	24,686	47,843	460	63,027
April .....	43,868	39,694	36	23,988	45,293	456	60,858
May .....	45,160	36,348	39	24,091	46,893	483	62,194
June .....	43,319	37,334	45	23,281	45,212	503	56,318
July .....	43,257	37,272	30	24,495	45,570	500	57,095
August .....	43,873	37,239	43	24,547	51,269	540	55,144
September .....	42,834	38,039	31	23,826	45,437	537	55,563
October .....	42,200	41,204	34	24,261	50,245	468	57,589
November .....	45,395	40,706	37	24,493	49,824	517	58,460
December .....	47,278	44,166	40	25,203	50,363	531	60,890
<b>Total</b> .....	530,841	480,828	463	286,494	572,071	6,006	712,796
<b>1997</b>							
January .....	32,136	45,409	46	24,427	47,843	525	60,197
February .....	29,307	40,017	41	23,877	47,967	510	54,234
March .....	32,291	43,559	42	23,879	52,372	607	60,099
April .....	32,077	39,267	39	23,223	48,571	552	57,085
May .....	31,326	35,821	36	23,690	48,444	538	61,661
June .....	30,137	37,634	28	23,507	44,744	448	57,731
July .....	31,331	35,680	31	23,981	50,319	512	56,193
August .....	30,914	36,425	30	23,831	52,235	503	<sup>E</sup> 54,372
September .....	<sup>R</sup> 33,496	<sup>R</sup> 34,854	29	<sup>E</sup> 31,981	50,425	<sup>E</sup> 483	<sup>E</sup> 51,771
October .....	34,689	39,929	34	32,943	51,450	<sup>E</sup> 496	<sup>E</sup> 56,404
<b>1997 YTD</b> .....	<sup>E</sup> 317,703	<sup>E</sup> 388,595	356	<sup>E</sup> 255,338	494,371	<sup>E</sup> 5,173	<sup>E</sup> 569,749
<b>1996 YTD</b> .....	438,168	395,956	387	236,798	471,885	4,958	<sup>E</sup> 593,446
<b>1995 YTD</b> .....	429,886	388,351	466	230,054	440,305	5,464	594,889

See footnotes at end of table.

**Table 7. Marketed Production of Natural Gas, by State, 1991-1997**  
(Million Cubic Feet) — Continued

Year and Month	Louisiana <sup>c</sup>	Michigan	Mississippi	Montana	New Mexico	North Dakota	Oklahoma
<b>1991 Total</b> .....	5,034,361	195,749	108,031	51,999	1,038,284	53,479	2,153,852
<b>1992 Total</b> .....	4,914,300	194,815	91,697	53,867	1,268,863	54,883	2,017,356
<b>1993 Total</b> .....	4,991,138	204,635	80,695	54,528	1,409,429	59,851	2,049,942
<b>1994 Total</b> .....	5,169,705	222,657	63,448	50,416	1,557,689	57,805	1,934,864
<b>1995</b>							
January .....	437,237	22,536	7,664	4,919	134,508	4,284	160,707
February .....	386,483	7,882	6,874	4,278	125,334	3,933	143,517
March .....	417,303	31,418	7,651	4,716	136,983	4,410	154,640
April .....	411,156	17,507	7,408	4,381	131,657	4,111	148,305
May .....	432,964	19,427	8,138	4,153	137,827	4,313	149,369
June .....	412,412	25,052	7,836	3,420	130,688	4,186	143,346
July .....	432,943	23,349	7,959	3,493	132,372	3,615	145,565
August .....	420,784	19,129	8,685	3,570	138,073	4,128	145,609
September .....	422,232	21,698	8,783	3,734	134,030	4,129	143,565
October .....	401,813	19,548	8,429	4,345	139,330	4,239	156,378
November .....	452,671	15,086	7,874	4,566	140,166	4,019	156,667
December .....	480,368	15,569	8,233	4,690	144,869	4,101	164,066
<b>Total</b> .....	5,108,366	238,203	95,533	50,264	1,625,837	49,468	1,811,734
<b>1996</b>							
January .....	437,274	21,912	8,089	4,503	135,594	4,276	143,693
February .....	412,611	18,686	7,386	4,266	126,370	3,880	139,115
March .....	446,371	11,208	8,385	4,443	138,091	4,164	131,701
April .....	436,014	32,072	8,225	4,098	132,572	4,122	147,949
May .....	451,148	18,021	9,026	4,244	138,946	4,273	149,425
June .....	434,668	23,572	8,983	3,496	131,778	3,990	143,675
July .....	449,052	27,119	9,335	3,603	125,193	4,047	146,451
August .....	449,461	23,261	9,193	4,050	126,967	4,096	148,463
September .....	431,768	20,208	8,641	4,172	122,040	4,185	143,302
October .....	421,252	20,374	8,996	4,668	123,570	4,246	150,322
November .....	427,566	16,081	8,487	4,521	124,377	4,216	146,828
December .....	443,563	13,227	8,518	4,933	128,590	4,178	143,965
<b>Total</b> .....	5,240,747	245,740	103,263	50,996	1,554,087	49,674	1,734,887
<b>1997</b>							
January .....	<sup>E</sup> 466,044	35,849	8,089	4,638	125,382	4,035	<sup>R</sup> 144,608
February .....	<sup>E</sup> 425,451	17,314	7,807	4,380	125,445	3,921	<sup>R</sup> 134,742
March .....	<sup>E</sup> 470,994	25,435	8,470	4,608	<sup>R</sup> 124,026	4,313	<sup>R</sup> 146,588
April .....	<sup>E</sup> 458,943	13,281	8,120	4,320	<sup>R</sup> 123,657	4,176	<sup>R</sup> 136,080
May .....	<sup>E</sup> 469,736	40,848	8,611	4,166	<sup>R</sup> 122,869	4,542	<sup>R</sup> 141,818
June .....	<sup>E</sup> 453,645	<sup>R</sup> 19,934	8,893	3,792	<sup>R</sup> 123,509	4,341	<sup>R</sup> 137,044
July .....	<sup>E</sup> 468,677	41,068	8,636	4,080	<sup>R</sup> 123,507	4,420	<sup>R</sup> 143,141
August .....	<sup>E</sup> 469,613	19,081	9,626	<sup>R</sup> 4,172	<sup>R</sup> 123,966	4,454	<sup>R</sup> 146,381
September .....	449,866	<sup>RE</sup> 19,546	9,162	<sup>RE</sup> 4,348	<sup>R</sup> 124,586	4,276	141,645
October .....	438,579	<sup>E</sup> 17,449	10,084	<sup>E</sup> 4,959	124,710	4,507	148,583
<b>1997 YTD</b> .....	<sup>E</sup> 4,571,548	<sup>E</sup> 249,803	87,499	<sup>E</sup> 43,464	<sup>E</sup> 1,241,659	42,985	1,420,630
<b>1996 YTD</b> .....	<sup>E</sup> 4,369,618	216,433	86,258	41,542	<sup>E</sup> 1,301,120	41,280	<sup>E</sup> 1,444,095
<b>1995 YTD</b> .....	4,175,326	207,548	79,427	41,008	1,340,802	41,348	1,491,002

See footnotes at end of table.

**Table 7. Marketed Production of Natural Gas, by State, 1991-1997**

(Million Cubic Feet) — Continued

Year and Month	Oregon	Texas <sup>c</sup>	Utah	Wyoming	Other <sup>a</sup> States	U.S. Total
<b>1991 Total</b> .....	2,741	6,280,654	144,817	776,528	784,362	18,532,439
<b>1992 Total</b> .....	2,580	6,145,862	171,293	842,576	800,913	18,711,808
<b>1993 Total</b> .....	4,003	6,249,624	225,401	634,957	788,472	18,981,915
<b>1994 Total</b> .....	3,221	6,353,844	270,858	696,018	774,724	19,709,525
<b>1995</b>						
January .....	279	528,857	22,354	62,919	66,793	1,676,643
February .....	214	479,553	21,686	50,369	61,412	1,495,384
March .....	208	538,515	25,813	57,602	64,520	1,659,694
April .....	150	523,631	24,529	59,544	61,326	1,604,162
May .....	137	539,311	22,498	54,039	62,505	1,648,688
June .....	135	526,759	15,626	51,792	63,229	1,586,994
July .....	150	548,617	17,120	55,403	61,116	1,639,474
August .....	139	545,415	17,676	57,125	62,212	1,628,213
September .....	128	520,687	18,447	51,741	59,787	1,580,857
October .....	128	524,049	16,987	57,494	63,766	1,610,256
November .....	126	522,744	18,062	56,956	62,910	1,656,989
December .....	130	531,909	20,493	58,792	70,151	1,719,118
<b>Total</b> .....	1,923	6,330,048	241,290	673,775	759,728	19,506,474
<b>1996</b>						
January .....	120	545,658	19,998	58,691	69,638	1,672,623
February .....	75	512,557	18,027	56,037	66,726	1,580,472
March .....	105	552,700	21,650	57,270	72,373	1,673,596
April .....	121	529,015	20,864	54,662	65,643	1,649,552
May .....	140	547,843	21,035	52,805	67,061	1,679,176
June .....	132	533,168	20,759	59,346	64,752	1,634,329
July .....	146	557,986	20,573	55,519	64,500	1,671,743
August .....	117	550,499	21,137	54,567	66,523	1,670,989
September .....	132	529,524	21,589	51,949	65,361	1,609,140
October .....	133	543,264	22,152	53,649	69,163	1,637,792
November .....	113	517,147	21,606	53,990	70,997	1,615,362
December .....	102	529,659	21,376	57,551	71,875	1,656,019
<b>Total</b> .....	1,439	6,449,022	250,767	666,036	814,612	19,750,793
<b>1997</b>						
January .....	105	560,683	21,782	53,272	<sup>E</sup> 69,157	<sup>RE</sup> 1,704,228
February .....	98	509,089	19,115	45,143	<sup>E</sup> 64,219	<sup>RE</sup> 1,552,675
March .....	101	560,042	21,912	62,872	<sup>E</sup> 68,518	<sup>RE</sup> 1,710,728
April .....	102	531,761	19,570	60,661	<sup>E</sup> 64,329	<sup>RE</sup> 1,625,816
May .....	102	549,243	22,053	62,147	<sup>E</sup> 64,899	<sup>RE</sup> 1,692,550
June .....	97	527,306	19,815	55,384	<sup>E</sup> 64,227	<sup>RE</sup> 1,612,216
July .....	98	533,930	21,711	60,873	<sup>E</sup> 64,033	<sup>RE</sup> 1,672,222
August .....	99	539,321	21,018	<sup>E</sup> 62,134	<sup>E</sup> 65,381	<sup>RE</sup> 1,663,556
September .....	86	520,843	<sup>E</sup> 22,242	60,378	<sup>E</sup> 63,629	<sup>RE</sup> 1,623,647
October .....	97	535,219	<sup>E</sup> 22,261	66,373	<sup>E</sup> 67,561	<sup>E</sup> 1,656,327
<b>1997 YTD</b> .....	986	5,367,437	<sup>E</sup> 211,477	<sup>E</sup> 589,237	<sup>E</sup> 655,954	<sup>E</sup> 16,513,965
<b>1996 YTD</b> .....	1,223	5,402,216	207,785	554,495	<sup>E</sup> 671,740	16,479,412
<b>1995 YTD</b> .....	1,666	5,275,394	202,735	558,027	626,667	16,130,367

<sup>a</sup> Includes Arkansas, Illinois, Indiana, Kentucky, Maryland, Missouri, Nebraska, Nevada, New York, Ohio, Pennsylvania, South Dakota, Tennessee, Virginia and West Virginia. The 1997 monthly values for these States are estimated.

<sup>b</sup> The 1992, 1993, 1994, 1995, and 1996 monthly and annual values include Federal Offshore production.

<sup>c</sup> Monthly Federal offshore production volumes are included.

<sup>R</sup> = Revised Data.

<sup>E</sup> = Estimated Data.

<sup>RE</sup> = Revised Estimated Data.

Notes: Data for 1991 through 1996 are final. All other data are preliminary unless otherwise indicated. Totals may not equal sum of components because of independent rounding. See Appendix A, Explanatory Notes 1 and 3 for discussion of computation procedures and revision policy.

Sources: 1991-1996: Energy Information Administration (EIA), *Natural Gas Annual 1996*. 1997 through current month: Form EIA-895, "Monthly Quantity of Natural Gas Report," Minerals Management Service reports, and EIA computations.

**Table 8. Gross Withdrawals and Marketed Production of Natural Gas by State,  
October 1997**  
(Million Cubic Feet)

State	Gross Withdrawals			Repressuring	Nonhydro- carbon Gases Removed <sup>a</sup>	Vented and Flared	Marketed Production
	From Gas Wells	From Oil Wells	Total				
Alabama .....	37,924	903	38,827	1,483	2,564	91	34,689
Alaska .....	16,290	274,336	290,626	249,879	0	819	39,929
Arizona .....	31	2	34	0	0	0	34
California .....	14,921	27,648	42,569	9,435	129	63	32,943
Colorado .....	44,354	7,398	51,752	218	0	83	51,450
Florida .....	0	<sup>E</sup> 560	<sup>E</sup> 560	0	<sup>E</sup> 64	0	<sup>E</sup> 496
Kansas .....	<sup>E</sup> 49,770	<sup>E</sup> 6,787	<sup>E</sup> 56,557	<sup>E</sup> 96	0	<sup>E</sup> 57	<sup>E</sup> 56,404
Louisiana .....	385,947	58,019	443,966	3,482	0	1,905	438,579
Michigan .....	<sup>E</sup> 14,180	<sup>E</sup> 3,545	<sup>E</sup> 17,725	<sup>E</sup> 114	0	<sup>E</sup> 162	<sup>E</sup> 17,449
Mississippi .....	11,273	659	11,931	814	775	258	10,084
Montana .....	<sup>E</sup> 4,403	<sup>E</sup> 599	<sup>E</sup> 5,002	<sup>E</sup> 6	0	<sup>E</sup> 37	<sup>E</sup> 4,959
New Mexico .....	117,718	20,406	138,124	841	12,348	224	124,710
North Dakota .....	1,298	3,547	4,845	0	13	325	4,507
Oklahoma .....	141,827	6,756	148,583	0	0	0	148,583
Oregon .....	115	0	115	4	14	0	97
Texas .....	474,558	114,829	589,387	38,142	13,546	2,480	535,219
Utah .....	<sup>E</sup> 19,949	<sup>E</sup> 3,717	<sup>E</sup> 23,666	<sup>E</sup> 76	0	<sup>E</sup> 1,328	<sup>E</sup> 22,261
Wyoming .....	101,881	5,808	107,690	13,048	14,125	14,144	66,373
Other States .....	<sup>E</sup> 63,912	<sup>E</sup> 4,534	<sup>E</sup> 68,445	<sup>E</sup> 191	0	<sup>E</sup> 693	<sup>E</sup> 67,561
<b>Total .....</b>	<sup>E</sup> 1,500,351	<sup>E</sup> 540,052	<sup>E</sup> 2,040,403	<sup>E</sup> 317,829	<sup>E</sup> 43,578	<sup>E</sup> 22,669	<sup>E</sup> 1,656,327

<sup>a</sup> See Appendix A, Explanatory Note 1, for a discussion of data on Nonhydrocarbon Gases Removed.

<sup>E</sup> = Estimated Data.

Notes: All monthly data are considered preliminary until publication of the *Natural Gas Annual* for that year. Totals may not equal sum of components because of independent rounding. See Appendix A, Explanatory Notes 1 and 3 for discussion of computation procedures and revision policy.

Source: Form EIA-895, "Monthly Quantity of Natural Gas Report."



**Table 9. Underground Natural Gas Storage - All Operators, 1992-1998**

(Volumes in Billion Cubic Feet)

Year and Month	Natural Gas in Underground Storage at End of Period			Change In Working Gas from Same Period Previous Year		Storage Activity		
	Base Gas	Working Gas	Total <sup>b</sup>	Volume	Percent	Injections	Withdrawals	Net Withdrawals <sup>c</sup>
<b>1992 Total<sup>a</sup></b> .....	4,044	2,597	6,641	-227	-8.0	2,555	2,724	168
<b>1993 Total<sup>a</sup></b> .....	4,327	2,322	6,649	-275	-10.6	2,760	2,717	-43
<b>1994 Total<sup>a</sup></b> .....	4,360	2,606	6,966	284	12.2	2,796	2,508	-288
<b>1995 Total<sup>a</sup></b> .....	4,349	2,153	6,503	-453	3.1	2,566	2,974	408
<b>1996</b>								
January .....	4,354	1,462	5,817	-583	-28.5	49	749	700
February .....	4,349	1,021	5,369	-521	-33.8	97	544	447
March .....	4,290	758	5,048	-574	-43.1	80	403	323
April .....	4,312	854	5,166	-525	-38.1	227	112	-115
May .....	4,332	1,161	5,493	-507	-30.4	373	45	-328
June .....	4,341	1,529	5,870	-485	-24.1	410	35	-375
July .....	4,336	1,898	6,234	-404	-17.5	418	49	-370
August .....	4,332	2,245	6,577	-250	-10.0	400	54	-346
September .....	4,338	2,605	6,943	-197	-7.0	398	32	-366
October .....	4,335	2,810	7,145	-186	-6.2	276	73	-203
November .....	4,339	2,549	6,889	-179	-6.6	90	354	264
December .....	4,341	2,173	6,513	19	0.9	86	461	374
<b>Total</b> .....	—	—	—	—	—	2,906	2,911	6
<b>1997</b>								
January .....	4,348	1,496	5,844	34	2.3	69	752	684
February .....	4,342	1,140	5,482	120	11.7	55	413	358
March .....	4,346	991	5,337	233	30.7	131	285	155
April .....	4,342	1,051	5,393	197	23.1	205	146	-58
May .....	4,343	1,362	5,705	201	17.3	362	41	-321
June .....	4,357	1,730	6,087	201	13.2	405	41	-364
July .....	4,356	2,014	6,369	116	6.1	359	78	-281
August .....	4,357	2,336	6,693	92	4.1	378	56	-322
September .....	4,360	2,672	7,032	67	2.6	380	44	-336
October .....	4,358	2,886	7,244	75	2.7	295	84	-211
November .....	4,360	2,698	7,058	149	5.9	113	302	189
December .....	<sup>R</sup> 4,350	<sup>R</sup> 2,170	<sup>R</sup> 6,520	<sup>R</sup> -2	<sup>R</sup> -0.1	45	579	<sup>R</sup> 533
<b>Total</b> .....	—	—	—	—	—	<sup>R</sup> 2,796	<sup>R</sup> 2,823	<sup>R</sup> 27
<b>1998</b>								
<b>January(STIFS)</b> .....	<sup>RE</sup> 4,350	<sup>RE</sup> 1,700	<sup>RE</sup> 6,050	<sup>RE</sup> 204	<sup>RE</sup> 13.6	NA	NA	<sup>RE</sup> 470
<b>February(STIFS)</b> .....	<sup>E</sup> 4,350	<sup>E</sup> 1,350	<sup>E</sup> 5,700	<sup>E</sup> 210	<sup>E</sup> 18.4	NA	NA	<sup>E</sup> 350

<sup>a</sup> Total as of December 31.

<sup>b</sup> Total underground storage capacity at the end of each calendar year (in billion cubic feet): 1991 - 7,993; 1992 - 7,932; 1993 - 7,989; 1994 - 8,043; 1995 - 7,927; and 1996 - 8,159.

<sup>c</sup> Negative numbers indicate the volume of injections in excess of withdrawals. Positive numbers indicate the volume of withdrawals in excess of injections.

<sup>R</sup> = Revised Data.

<sup>E</sup> = Estimated Data.

<sup>RE</sup> = Revised Estimated Data.

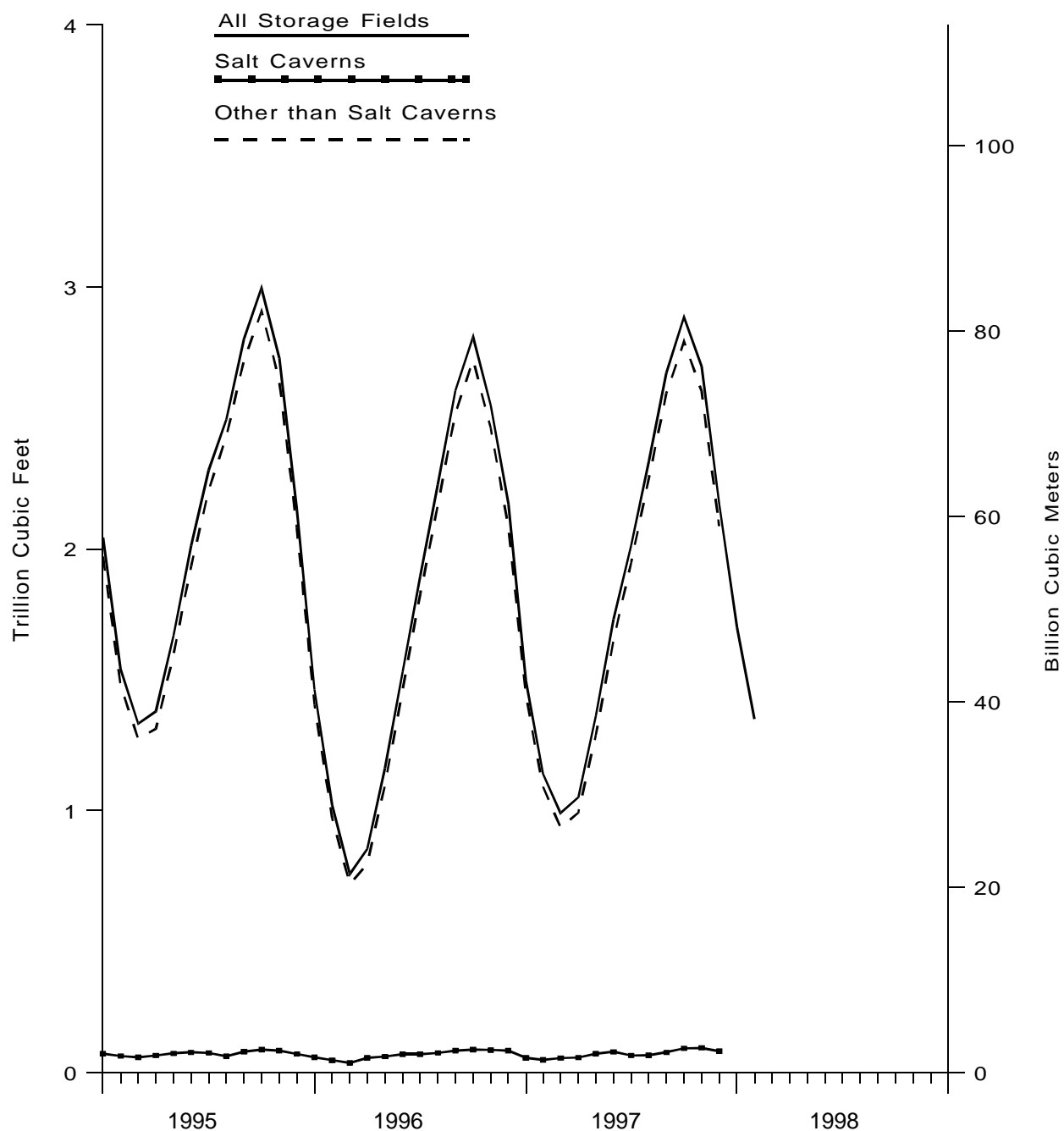
NA = Not Available.

— = Not Applicable.

Notes: Data for 1992 through 1996 are final. All other data are preliminary unless otherwise noted. Estimates for the most recent two months are derived from the Short-Term Integrated Forecasting System (STIFS). See Explanatory Note 7 of the *Natural Gas Monthly* for discussion of revision policy. Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Totals may not equal sum of components because of independent rounding. Geographic coverage is the 50 States and the District of Columbia. In January 1995, 2 billion cubic feet was added to base gas for two new respondents. Positive net withdrawals indicate the volume of withdrawals in excess of injections. Negative net withdrawals indicate the volume of injections in excess of withdrawals.

Sources: Form EIA-191, "Monthly Underground Gas Storage Report," Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition," and STIFS.

Figure 5. Working Gas in Underground Natural Gas Storage in the United States, 1995-1998



Sources: Energy Information Administration, Form EIA-191, "Monthly Underground Gas Storage Report," and Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

**Table 10. Underground Natural Gas Storage - by Season, 1993-1998**  
(Volumes in Billion Cubic Feet)

Year, Season and Month	Natural Gas in Underground Storage at End of Period			Change In Working Gas from Same Period Previous Year		Storage Activity		
	Base Gas	Working Gas	Total	Volume	Percent	Injections	Withdrawals	Net Withdrawals <sup>a</sup>
<b>October 1995</b> .....	4,338	2,996	7,334	--	--	--	--	--
<b>1995-96 Heating Season</b>								
November .....	4,342	2,728	7,070	-249	-8.4	96	367	272
December .....	4,349	2,153	6,503	-453	-17.4	53	635	582
January .....	4,354	1,462	5,817	-583	-28.5	49	749	700
February .....	4,349	1,021	5,369	-521	-33.8	97	544	447
March .....	4,290	758	5,048	-574	-43.1	80	403	323
<b>Total</b> .....	--	--	--	--	--	375	2,698	2,324
<b>1996 Refill Season</b>								
April .....	4,312	854	5,166	-525	-38.1	227	112	-115
May .....	4,332	1,161	5,493	-507	-30.4	373	45	-328
June .....	4,341	1,529	5,870	-485	-24.1	410	35	-375
July .....	4,336	1,898	6,234	-404	-17.5	418	49	-370
August .....	4,332	2,245	6,577	-250	-10.0	400	54	-346
September .....	4,338	2,605	6,943	-197	-7.0	398	32	-366
October .....	4,335	2,810	7,145	-186	-6.2	276	73	-203
<b>Total</b> .....	--	--	--	--	--	2,502	400	-2,103
<b>1996-97 Heating Season</b>								
November .....	4,339	2,549	6,889	-179	-6.6	90	354	264
December .....	4,341	2,173	6,513	19	0.9	86	461	374
January .....	4,348	1,496	5,844	34	2.3	69	752	684
February .....	4,342	1,140	5,482	120	11.7	55	413	358
March .....	4,346	991	5,337	233	30.7	131	285	155
<b>Total</b> .....	--	--	--	--	--	431	2,265	1,835
<b>1997 Refill Season</b>								
April .....	4,342	1,051	5,393	197	23.1	205	146	-58
May .....	4,343	1,362	5,705	201	17.3	362	41	-321
June .....	4,357	1,730	6,087	201	13.2	405	41	-364
July .....	4,356	2,014	6,369	116	6.1	359	78	-281
August .....	4,357	2,336	6,693	92	4.1	378	56	-322
September .....	4,360	2,672	7,032	67	2.6	380	44	-336
October .....	4,358	2,886	7,244	75	2.7	295	84	-211
<b>Total</b> .....	--	--	--	--	--	2,384	490	-1,893
<b>1997-98 Heating Season</b>								
November .....	4,360	2,698	7,058	149	5.9	113	302	189
December .....	<sup>R</sup> 4,350	<sup>R</sup> 2,170	<sup>R</sup> 6,520	<sup>R</sup> -2	<sup>R</sup> -0.1	45	579	<sup>R</sup> 533
<b>January(STIFS)</b> .....	<sup>RE</sup> 4,350	<sup>RE</sup> 1,700	<sup>RE</sup> 6,050	<sup>RE</sup> 204	<sup>RE</sup> 13.6	NA	NA	<sup>RE</sup> 470
<b>February(STIFS)</b> .....	<sup>E</sup> 4,350	<sup>E</sup> 1,350	<sup>E</sup> 5,700	<sup>E</sup> 210	<sup>E</sup> 18.4	NA	NA	<sup>E</sup> 350

<sup>a</sup> Negative numbers indicate the volume of injections in excess of withdrawals. Positive numbers indicate the volume of withdrawals in excess of injections.

<sup>R</sup> = Revised Data.

<sup>E</sup> = Estimated Data.

<sup>RE</sup> = Revised Estimated Data.

NA = Not Available.

Notes: Data for 1995 and 1996 are final. All other data are preliminary unless otherwise noted. Estimates for the most recent two months are derived from the Short-Term Integrated Forecasting System (STIFS). See Explanatory Note 7 of the *Natural Gas Monthly* for discussion of revision policy. Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Totals may not equal sum of components because of independent rounding. Geographic coverage is the 50 States and the District of Columbia. In January 1995, 2 billion cubic feet was added to base gas for two new respondents. Positive net withdrawals indicate the volume of withdrawals in excess of injections. Negative net withdrawals indicate the volume of injections in excess of withdrawals.

Sources: Form EIA-191, "Underground Natural Gas Storage Report," Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition," and STIFS.

**Table 11. Underground Natural Gas Storage - Salt Cavern Storage Fields, 1995-1997**

(Volumes in Billion Cubic Feet)

Year and Month	Natural Gas in Salt Cavern Underground Storage at End of Period			Change in Working Gas from Same Period Previous Year		Storage Activity		
	Base Gas	Working Gas	Total <sup>a</sup>	Volume	Percent	Injections	Withdrawals	Net Withdrawals
<b>1995</b>								
January .....	54	73	127	26	53.8	14	23	9
February .....	54	64	119	28	74.9	13	22	8
March .....	54	59	113	17	39.4	16	22	6
April .....	54	66	120	16	33.0	17	10	-8
May .....	54	74	128	15	25.3	18	10	-7
June .....	54	78	133	22	38.1	15	9	-5
July .....	54	76	130	12	19.0	11	14	3
August .....	54	63	117	-1	-2.2	10	23	13
September .....	54	81	135	10	14.7	23	6	-18
October .....	55	88	143	15	21.1	21	14	-8
November .....	55	84	139	10	14.2	16	20	4
December .....	60	72	131	2	2.9	20	27	7
<b>Total .....</b>	—	—	—	—	—	194	200	5
<b>1996</b>								
January .....	63	59	122	-14	-19.3	23	41	17
February .....	63	48	111	-17	-26.2	23	33	10
March .....	63	38	101	-21	-35.2	21	32	11
April .....	63	57	120	-9	-13.7	30	10	-20
May .....	63	62	126	-11	-15.1	19	13	-6
June .....	63	71	135	-7	-8.9	21	12	-9
July .....	60	71	131	-5	-6.7	20	14	-6
August .....	60	76	136	13	20.5	21	16	-5
September .....	60	85	145	4	5.0	23	13	-9
October .....	60	88	148	0	0.4	17	14	-3
November .....	64	87	151	3	4.0	16	20	5
December .....	64	85	149	14	18.8	25	28	2
<b>Total .....</b>	—	—	—	—	—	258	246	-13
<b>1997</b>								
January .....	65	57	122	-2	-3.1	21	50	30
February .....	59	49	109	2	4.0	15	23	8
March .....	65	56	121	18	47.3	22	16	-6
April .....	65	58	123	1	1.8	21	19	-3
May .....	65	73	138	11	17.3	27	13	-14
June .....	66	80	145	8	11.7	22	15	-7
July .....	65	66	131	-5	-7.5	15	29	14
August .....	65	67	132	-9	-12.4	23	22	-1
September .....	65	78	143	-7	-8.7	26	14	-12
October .....	66	93	159	5	5.6	30	14	-16
November .....	67	95	162	8	9.1	25	23	-2
December .....	67	82	150	-3	-3.1	18	31	12
<b>Total .....</b>	—	—	—	—	—	266	270	4

<sup>a</sup> Total underground storage capacity at the end of each calendar year (in billion cubic feet): 1995 - 5,314; and 1996 - 7,952.

— = Not Applicable.

Notes: Data for 1995 and 1996 are final. All other data are preliminary unless otherwise noted. See Explanatory Note 7 of the *Natural Gas Monthly* for discussion of the reporting of underground storage information. Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Totals may not equal sum of components because of independent rounding. Geographic coverage is the 50 States and the District of Columbia. Positive net withdrawals indicate the volume of withdrawals in excess of injections. Negative net withdrawals indicate the volume of injections in excess of withdrawals.

Sources: Form EIA-191, "Monthly Underground Gas Storage Report," and Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

**Table 12. Underground Natural Gas Storage - Storage Fields Other than Salt Caverns, 1995-1997**  
(Volumes in Billion Cubic Feet)

Year and Month	Natural Gas in Non-Salt Cavern Underground Storage at End of Period			Change in Working Gas from Same Period Previous Year		Storage Activity		
	Base Gas	Working Gas	Total <sup>a</sup>	Volume	Percent	Injections	Withdrawals	Net Withdrawals
<b>1995</b>								
January .....	4,311	1,972	6,283	440	28.7	31	621	590
February .....	4,314	1,477	5,791	423	40.2	31	542	511
March .....	4,308	1,273	5,581	357	39.0	88	305	217
April .....	4,306	1,313	5,619	191	17.0	159	118	-42
May .....	4,339	1,595	5,934	99	6.6	352	24	-328
June .....	4,351	1,936	6,287	96	5.2	396	30	-366
July .....	4,285	2,225	6,511	16	0.7	348	40	-308
August .....	4,285	2,432	6,717	-110	-4.3	283	63	-220
September .....	4,287	2,721	7,008	-120	-4.2	319	24	-296
October .....	4,283	2,908	7,191	-94	-3.1	252	54	-198
November .....	4,287	2,645	6,931	-260	-8.9	79	347	268
December .....	4,290	2,082	6,371	-455	-17.9	33	607	574
<b>Total .....</b>	—	—	—	—	—	2,372	2,774	403
<b>1996</b>								
January .....	4,291	1,404	5,695	-569	-28.8	26	708	682
February .....	4,286	973	5,259	-504	-34.1	73	510	437
March .....	4,228	720	4,948	-553	-43.4	59	371	312
April .....	4,249	797	5,046	-516	-39.3	197	102	-95
May .....	4,268	1,099	5,367	-496	-31.1	354	32	-322
June .....	4,277	1,458	5,735	-478	-24.7	390	23	-366
July .....	4,276	1,827	6,103	-399	-17.9	398	34	-363
August .....	4,272	2,169	6,441	-263	-10.8	380	39	-341
September .....	4,277	2,520	6,797	-201	-7.4	376	19	-357
October .....	4,275	2,722	6,997	-186	-6.4	259	59	-200
November .....	4,275	2,462	6,737	-183	-6.9	75	333	259
December .....	4,277	2,087	6,364	6	0.3	61	433	372
<b>Total .....</b>	—	—	—	—	—	2,647	2,665	18
<b>1997</b>								
January .....	4,283	1,439	5,722	36	2.5	48	702	654
February .....	4,283	1,091	5,374	118	12.1	40	390	350
March .....	4,281	935	5,216	215	29.9	109	270	161
April .....	4,277	993	5,270	196	24.6	184	128	-56
May .....	4,278	1,289	5,567	190	17.3	335	28	-307
June .....	4,291	1,651	5,942	193	13.2	383	26	-357
July .....	4,290	1,948	6,238	121	6.6	344	49	-295
August .....	4,291	2,270	6,561	101	4.7	355	34	-321
September .....	4,295	2,595	6,890	75	3.0	354	30	-324
October .....	4,292	2,793	7,085	70	2.6	265	70	-195
November .....	4,293	2,603	6,897	141	5.7	88	279	191
December .....	4,283	2,088	6,371	0	0.0	27	548	521
<b>Total .....</b>	—	—	—	—	—	2,530	2,553	23

<sup>a</sup> Total underground storage capacity at the end of each calendar year (in billion cubic feet): 1995 - 5,314; and 1996 - 7,952.

— = Not Applicable.

Notes: Data for 1995 and 1996 are final. All other data are preliminary unless otherwise noted. See Explanatory Note 7 of the *Natural Gas Monthly* for discussion of the reporting of underground storage information. Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Totals may not equal sum of components because of independent rounding. Geographic coverage is the 50 States and the District of Columbia. Positive net withdrawals indicate the volume of withdrawals in excess of injections. Negative net withdrawals indicate the volume of injections in excess of withdrawals.

Sources: Form EIA-191, "Monthly Underground Gas Storage Report," and Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

**Table 13. Net Withdrawals from Underground Storage, by State, 1995-1997**  
(Volumes in Million Cubic Feet)

State	1997						
	Total	December	November	October	September	August	July
Alabama .....	-162	243	243	-251	-262	-286	-43
Arkansas .....	251	1,526	651	271	-1,048	-1,234	-1,472
California .....	14,425	58,445	2,749	-11,834	-6,817	-8,032	-11,406
Colorado .....	384	5,111	2,545	458	-5,141	-4,488	-5,540
Illinois .....	-11,140	45,338	2,735	-28,914	-36,161	-35,848	-32,648
Indiana .....	365	4,036	-925	-3,135	-4,603	-3,757	-3,309
Iowa .....	-6,207	16,932	554	-8,358	-12,762	-10,938	-8,777
Kansas .....	-12,416	12,485	8,499	-7,912	-13,678	-11,439	-3,703
Kentucky .....	3,182	10,772	4,043	-2,925	-7,983	-6,520	-7,391
Louisiana .....	-7,721	43,862	21,196	-23,999	-29,222	-15,259	-11,713
Maryland .....	-148	1,312	53	-2,283	-2,766	-2,292	-1,497
Michigan .....	-702	77,495	53,120	-32,347	-64,478	-72,202	-74,634
Minnesota .....	-303	5	4	0	-130	-137	-321
Mississippi .....	3,703	8,471	1,122	-2,145	-5,204	-3,115	709
Missouri .....	-453	228	-207	-215	-240	-379	-433
Montana .....	11,955	3,168	2,753	1,015	-1,490	-2,339	-2,710
Nebraska .....	-1,545	944	126	-66	-1,091	-964	-75
New Mexico .....	2,065	2,500	25	-1,305	-853	-328	587
New York .....	-131	10,285	4,803	-2,343	-6,626	-11,544	-11,628
Ohio .....	-6,964	40,390	15,498	-8,799	-23,418	-32,053	-34,093
Oklahoma .....	-10,892	24,727	13,548	-19,571	-14,433	-8,317	-864
Oregon .....	-1,019	1,036	-250	-93	-391	-1,123	-1,240
Pennsylvania .....	28,252	53,756	25,976	-16,030	-48,951	-44,991	-41,099
Texas .....	11,896	54,705	19,105	-30,561	-21,242	-13,220	10,013
Utah .....	-7,571	13,169	2,721	-1,301	-3,235	-5,284	-8,117
Washington .....	-904	3,177	90	707	-2,267	990	-490
West Virginia .....	17,744	36,345	6,670	-8,103	-18,997	-24,020	-26,065
Wyoming .....	963	3,015	1,918	-577	-2,424	-2,712	-3,393
<b>AGA Regions</b>							
Producing .....	-13,114	148,276	64,145	-85,222	-85,680	-52,913	-6,442
Eastern Consuming .....	22,091	298,078	112,688	-113,768	-228,337	-245,796	-241,693
Western Consuming .....	17,929	87,127	12,530	-11,625	-21,894	-23,125	-33,218
<b>Total</b> .....	<b>26,906</b>	<b>533,481</b>	<b>189,363</b>	<b>-210,615</b>	<b>-335,912</b>	<b>-321,834</b>	<b>-281,353</b>

See footnotes at end of table.

**Table 13. Net Withdrawals from Underground Storage, by State, 1995-1997**

(Volumes in Million Cubic Feet) — Continued

State	1997						1996
	June	May	April	March	February	January	Total
Alabama .....	-93	-271	-130	-25	184	531	-1,224
Arkansas .....	-1,340	-608	178	342	1,006	1,978	64
California .....	-23,191	-24,048	-19,220	-441	19,742	38,477	51,292
Colorado .....	-5,257	-5,328	5,569	2,069	4,862	5,523	-1,004
Illinois .....	-28,038	-23,880	-546	23,189	39,774	63,858	-15,108
Indiana .....	-1,914	-110	1,444	2,498	2,866	7,272	-1,801
Iowa .....	-8,361	-3,473	1,627	2,953	8,469	15,926	-1,229
Kansas .....	-12,195	-9,699	-1,605	4,096	9,102	13,633	12,118
Kentucky .....	-8,991	-7,821	-343	4,166	8,068	18,108	-7,530
Louisiana .....	-19,702	-19,500	-3,923	-18,817	21,080	48,276	10,964
Maryland .....	-1,657	-1,590	133	1,903	2,662	5,873	24
Michigan .....	-72,604	-46,126	-13,752	53,314	71,108	120,403	-31,671
Minnesota .....	-312	-273	-31	188	117	588	-30
Mississippi .....	-3,812	-5,552	442	-2,306	2,924	12,169	-12,758
Missouri .....	-112	-1,200	56	1,174	-252	1,126	-48
Montana .....	-1,633	-846	1,810	2,591	3,983	5,651	11,725
Nebraska .....	-797	-708	-43	-241	504	867	-1,489
New Mexico .....	-534	-1,228	583	501	1,527	591	5,338
New York .....	-10,571	-7,770	-1,700	9,210	10,116	17,636	-13,367
Ohio .....	-37,335	-34,081	-1,385	21,557	28,120	58,636	-10,844
Oklahoma .....	-8,028	-18,258	-7,130	-8,092	7,912	27,616	22,961
Oregon .....	-1,602	-1,239	543	920	1,078	1,341	783
Pennsylvania .....	-49,619	-44,272	-3,306	50,263	52,298	94,228	-59,533
Texas .....	-20,500	-27,751	-17,395	-21,183	24,869	55,056	63,869
Utah .....	-7,950	-4,255	-2,150	-2,620	2,520	8,931	12,955
Washington .....	-3,766	-5,880	-66	3,217	1,798	1,587	2,067
West Virginia .....	-31,691	-23,964	1,715	23,312	28,900	53,643	-35,844
Wyoming .....	-2,290	-1,119	127	1,082	2,976	4,361	5,056
<b>AGA Regions</b>							
Producing .....	-66,111	-82,596	-28,850	-45,460	68,420	159,319	102,555
Eastern Consuming .....	-251,783	-195,265	-16,231	193,275	252,817	458,106	-147,992
Western Consuming .....	-46,001	-42,987	-13,416	7,006	37,076	66,459	51,173
<b>Total</b> .....	-363,895	-320,849	-58,498	154,821	358,313	683,884	5,735

See footnotes at end of table.

**Table 13. Net Withdrawals from Underground Storage, by State, 1995-1997**

(Volumes in Million Cubic Feet) — Continued

State	1996						
	December	November	October	September	August	July	June
Alabama .....	761	129	-117	-440	-395	-205	-670
Arkansas .....	644	562	-603	-1,153	-615	-744	-1,166
California .....	14,985	-2,885	-6,393	-6,822	15,439	7,028	-9,697
Colorado .....	2,923	92	-87	-3,828	-3,722	-5,347	-5,035
Illinois .....	35,109	15,523	-28,103	-36,529	-35,172	-35,480	-32,122
Indiana .....	3,290	-853	-2,715	-3,911	-6,115	-4,278	-2,398
Iowa .....	18,020	5,502	-10,555	-12,536	-13,166	-12,393	-7,677
Kansas .....	12,290	12,828	-6,005	-8,532	-8,265	-7,537	-12,192
Kentucky .....	8,039	4,853	-2,826	-8,590	-10,071	-13,358	-14,231
Louisiana .....	32,273	29,327	-15,704	-33,463	-32,218	-29,380	-16,986
Maryland .....	958	1,424	-1,553	-1,677	-1,845	-1,887	-2,621
Michigan .....	83,640	61,160	-49,100	-81,220	-82,649	-80,355	-78,794
Minnesota .....	218	30	-35	-202	-213	-287	-294
Mississippi .....	4,658	5,707	-3,369	-7,330	-7,868	-8,061	-6,662
Missouri .....	76	306	-210	-204	-206	-240	-261
Montana .....	5,512	4,760	336	-3,519	-3,501	-3,261	-3,577
Nebraska .....	1,108	479	600	-785	-1,346	-1,193	-1,924
New Mexico .....	-823	607	482	-1,873	363	811	48
New York .....	8,151	6,347	-2,750	-7,327	-12,585	-12,964	-12,079
Ohio .....	35,138	25,728	-13,648	-23,807	-29,581	-36,092	-37,165
Oklahoma .....	20,970	17,468	-10,345	-18,814	-14,973	-8,211	-10,949
Oregon .....	1,240	552	170	-121	-509	-1,318	-1,365
Pennsylvania .....	25,003	33,464	-15,621	-37,711	-52,038	-69,480	-62,061
Texas .....	24,153	12,557	-22,072	-34,225	-18,108	-2,670	-13,902
Utah .....	9,164	4,651	1,416	-2,204	-3,884	-6,821	-6,742
Washington .....	1,746	462	1,648	-597	-1,965	-935	-3,317
West Virginia .....	21,644	19,884	-15,242	-28,009	-19,913	-32,686	-29,535
Wyoming .....	3,529	2,903	-272	-613	-771	-2,160	-1,760
<b>AGA Regions</b>							
Producing .....	94,165	79,056	-57,617	-105,390	-81,685	-55,791	-61,809
Eastern Consuming .....	240,936	173,946	-141,841	-242,746	-265,082	-300,612	-281,537
Western Consuming .....	39,316	10,566	-3,217	-17,907	874	-13,101	-31,788
<b>Total</b> .....	<b>374,417</b>	<b>263,567</b>	<b>-202,675</b>	<b>-366,042</b>	<b>-345,894</b>	<b>-369,504</b>	<b>-375,133</b>

See footnotes at end of table.



**Table 13. Net Withdrawals from Underground Storage, by State, 1995-1997**  
(Volumes in Million Cubic Feet) — Continued

State	1996					1995	
	May	April	March	February	January	Total	December
Alabama .....	-367	-153	162	17	54	73	400
Arkansas .....	-1,302	-44	1,259	1,115	2,112	709	2,149
California .....	-23,523	-11,917	1,459	25,693	47,924	-27,358	25,933
Colorado .....	-2,271	1,268	5,022	1,417	8,564	-3,152	5,194
Illinois .....	-26,711	-3,200	22,829	40,993	67,753	22,981	51,971
Indiana .....	-178	948	3,532	3,804	7,073	711	4,401
Iowa .....	-1,640	1,980	6,303	8,653	16,282	6,443	17,220
Kansas .....	-7,892	-5,779	9,984	6,590	26,627	4,875	16,419
Kentucky .....	-6,224	380	7,911	12,179	14,407	7,178	11,394
Louisiana .....	-11,703	-2,727	25,245	23,235	43,064	52,753	46,245
Maryland .....	-2,154	212	1,827	3,086	4,254	4,049	3,350
Michigan .....	-58,040	-14,063	51,828	83,725	132,197	117,409	115,938
Minnesota .....	-366	-90	213	250	748	104	245
Mississippi .....	-2,502	-4,083	6,016	3,023	7,713	7,783	6,445
Missouri .....	-1,319	296	384	-97	1,428	-197	330
Montana .....	782	647	3,884	3,443	6,220	3,599	5,251
Nebraska .....	-1,617	-303	802	754	1,937	5,844	1,597
New Mexico .....	21	519	2,200	1,614	1,370	2,273	1,527
New York .....	-13,349	-2,711	8,971	12,756	14,174	14,746	17,605
Ohio .....	-30,055	-8,729	29,225	33,937	44,205	38,862	43,090
Oklahoma .....	-19,131	-4,435	14,679	23,470	33,230	19,264	24,431
Oregon .....	-841	132	651	940	1,252	-880	822
Pennsylvania .....	-46,338	-22,497	43,459	64,167	80,122	63,786	78,025
Texas .....	-28,071	-22,764	43,870	49,673	75,427	26,165	49,476
Utah .....	-5,533	-188	2,388	8,372	12,335	-118	9,829
Washington .....	-1,973	-356	540	769	6,047	-2,363	1,015
West Virginia .....	-32,767	-16,242	26,887	30,318	39,816	41,129	39,382
Wyoming .....	-2,704	-644	1,095	3,044	3,410	1,552	2,100
<b>AGA Regions</b>							
Producing .....	-70,578	-39,312	103,253	108,720	189,543	113,822	146,692
Eastern Consuming .....	-220,759	-64,083	204,119	294,292	423,704	323,014	384,702
Western Consuming .....	-36,431	-11,149	15,252	43,928	86,501	-28,616	50,389
<b>Total</b> .....	<b>-327,768</b>	<b>-114,544</b>	<b>322,623</b>	<b>446,941</b>	<b>699,748</b>	<b>408,220</b>	<b>581,782</b>

Notes: This table contains total net withdrawals for each State with natural gas storage facilities. Positive numbers indicate the volume of withdrawals in excess of injections. Negative values indicate the volume of injections in excess of withdrawals. Data through 1996 are final. All other data are preliminary at this time and are not considered final until publication of the *Natural Gas Annual* for that year. The American Gas Association (AGA) publishes weekly estimates of working gas levels in underground storage by region. AGA defines the Producing Region as Texas, Oklahoma, Kansas, New Mexico, Louisiana, Arkansas, and Mississippi; the Eastern Consuming Region as all States east of the Mississippi River less Mississippi, plus Iowa, Nebraska and Missouri; the Western Consuming Region as all States west of the Mississippi River less the Producing Region and Iowa, Nebraska and Missouri.

Source: Form EIA-191, "Monthly Underground Gas Storage Report."

**Table 14. Activities of Underground Natural Gas Storage Operators, by State,  
December 1997**  
(Volumes in Million Cubic Feet)

State	Total Storage Capacity	Natural Gas in Underground Storage at End of Period			Change in Working Gas from Same Period Previous Year		Storage Activity	
		Base Gas	Working Gas	Total	Volume	Percent	Injections	Withdrawals
Alabama .....	3,280	1,190	1,523	2,713	405	36.2	27	270
Arkansas .....	31,871	11,181	5,534	16,715	970	21.2	0	1,526
California .....	469,696	247,394	125,820	373,215	-14,007	-10.0	326	58,770
Colorado .....	99,600	47,902	29,617	77,520	-629	-2.1	660	5,771
Illinois .....	898,239	651,403	214,962	866,365	11,262	5.5	1,578	46,916
Indiana .....	113,210	73,777	30,506	104,284	-3,130	-9.3	175	4,211
Iowa .....	270,200	200,700	43,215	243,915	6,207	16.8	652	17,584
Kansas .....	298,666	192,115	75,981	268,096	19,042	33.4	5,048	17,532
Kentucky .....	219,908	109,083	81,434	190,517	-2,517	-3.0	553	11,326
Louisiana .....	559,473	271,337	142,240	413,577	9,671	7.3	11,675	55,536
Maryland .....	62,000	46,677	13,077	59,754	148	1.1	542	1,854
Michigan .....	1,052,236	420,157	443,007	863,164	15,763	3.7	1,314	78,809
Minnesota .....	7,000	4,623	2,372	6,995	303	14.6	0	5
Mississippi .....	134,012	77,629	41,331	118,960	-3,284	-7.4	2,524	10,996
Missouri .....	31,126	21,600	9,446	31,046	453	5.0	0	228
Montana .....	375,010	167,378	46,065	213,443	-11,946	-20.6	430	3,598
Nebraska .....	39,469	31,507	3,494	35,001	1,545	79.3	6	950
New Mexico .....	96,600	24,692	5,518	30,210	914	19.8	51	2,552
New York .....	173,979	103,095	53,980	157,075	-3,591	-6.2	981	11,266
Ohio .....	557,452	352,910	127,416	480,326	4,206	3.4	699	41,090
Oklahoma .....	395,087	233,763	79,414	313,178	8,476	11.9	2,144	26,871
Oregon .....	11,623	4,896	5,986	10,882	1,019	20.5	0	1,036
Pennsylvania .....	680,006	357,228	269,205	626,434	-30,772	-10.3	2,944	56,700
Texas .....	678,534	254,435	147,415	401,850	-4,720	-3.1	11,573	66,278
Utah .....	121,980	62,100	24,500	86,600	6,148	33.5	86	13,256
Washington .....	37,300	22,096	10,831	32,928	1,107	11.4	313	3,491
West Virginia .....	484,597	298,432	118,292	416,724	-14,214	-10.7	828	37,173
Wyoming .....	105,869	60,782	18,205	78,987	-989	-5.2	158	3,173
<b>AGA Regions</b>								
Producing .....	2,194,242	1,065,151	497,434	1,562,585	31,068	6.7	33,015	181,291
Eastern Consuming .....	4,585,702	2,667,760	1,409,557	4,077,317	-14,236	-1.0	10,299	308,377
Western Consuming .....	1,228,076	617,173	263,397	880,570	-18,995	-6.7	1,974	89,100
<b>Total</b> .....	<b>8,008,021</b>	<b>4,350,083</b>	<b>2,170,388</b>	<b>6,520,472</b>	<b>-2,163</b>	<b>-0.1</b>	<b>45,287</b>	<b>578,768</b>

Notes: Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Totals may not equal sum of components because of independent rounding. Geographic coverage is the 50 States and the District of Columbia. The American Gas Association (AGA) publishes weekly estimates of working gas levels in underground storage by region. AGA defines the Producing Region as Texas, Oklahoma, Kansas, New Mexico, Louisiana, Arkansas, and Mississippi; the Eastern Consuming Region as all States east of the Mississippi River less Mississippi, plus Iowa, Nebraska and Missouri; the Western Consuming Region as all States west of the Mississippi River less the Producing Region and Iowa, Nebraska and Missouri.  
Source: Form EIA-191, "Monthly Underground Gas Storage Report."

**Table 15. Natural Gas Deliveries to Residential Consumers, by State, 1995-1997**  
(Million Cubic Feet)

State	YTD 1997	YTD 1996	YTD 1995	1997		
				November	October	September
Alabama .....	40,414	49,858	42,007	3,963	1,435	1,250
Alaska .....	13,412	13,998	12,937	1,684	2,012	743
Arizona .....	26,382	23,659	23,740	1,980	1,057	1,127
Arkansas .....	36,097	40,003	34,073	4,018	1,346	949
California .....	416,723	410,405	420,765	40,537	24,905	21,772
Colorado .....	NA	95,110	92,024	NA	NA	NA
Connecticut .....	NA	37,922	34,435	3,625	NA	1,001
Delaware .....	7,714	8,555	7,273	667	250	183
District of Columbia .....	13,386	14,885	13,111	1,414	553	393
Florida .....	12,500	14,711	12,755	1,192	755	699
Georgia .....	94,558	108,488	93,318	16,465	6,777	3,190
Hawaii .....	NA	496	529	NA	39	40
Idaho .....	NA	12,717	11,255	1,429	639	NA
Illinois .....	427,685	457,827	419,339	56,316	29,486	11,697
Indiana .....	NA	153,852	134,184	17,458	NA	3,491
Iowa .....	69,317	73,940	67,990	8,592	4,027	1,645
Kansas .....	64,649	70,988	62,238	8,812	2,419	1,629
Kentucky .....	NA	60,055	53,824	8,075	NA	1,448
Louisiana .....	NA	50,454	45,202	4,321	NA	1,697
Maine .....	867	846	762	107	66	30
Maryland .....	66,182	74,107	63,567	8,296	3,543	2,067
Massachusetts .....	NA	100,418	89,862	10,140	4,780	2,555
Michigan .....	329,451	346,798	318,735	37,898	17,835	8,767
Minnesota .....	114,687	120,167	107,619	15,376	6,811	2,864
Mississippi .....	NA	26,481	22,749	2,545	896	NA
Missouri .....	NA	116,685	105,414	12,077	NA	2,625
Montana .....	17,798	18,889	16,944	2,030	1,230	508
Nebraska .....	41,443	41,705	38,866	4,401	1,382	936
Nevada .....	21,287	19,221	18,329	1,917	1,019	802
New Hampshire .....	NA	6,157	5,517	616	327	NA
New Jersey .....	182,104	192,637	161,237	19,893	8,843	5,309
New Mexico .....	28,217	28,027	24,121	4,067	1,209	830
New York .....	NA	348,952	318,164	NA	NA	NA
North Carolina .....	43,774	50,204	40,798	4,884	1,441	935
North Dakota .....	10,429	10,697	9,514	1,178	474	229
Ohio .....	303,564	322,345	297,884	37,009	19,335	7,228
Oklahoma .....	60,692	65,331	58,933	6,181	1,966	1,548
Oregon .....	28,221	28,036	24,116	2,809	1,498	737
Pennsylvania .....	224,483	241,918	217,670	26,338	12,987	6,315
Rhode Island .....	15,653	16,489	14,709	1,464	659	473
South Carolina .....	20,841	25,070	20,742	2,399	631	466
South Dakota .....	11,490	11,842	10,782	1,329	569	261
Tennessee .....	NA	60,246	50,822	11,931	1,905	1,187
Texas .....	177,610	195,366	175,674	19,418	8,261	6,416
Utah .....	47,725	46,141	41,761	6,017	4,299	1,957
Vermont .....	2,285	2,221	1,946	214	118	59
Virginia .....	62,058	65,268	55,959	7,430	3,007	1,640
Washington .....	NA	52,885	45,151	NA	NA	NA
West Virginia .....	29,719	32,224	29,512	3,949	1,358	784
Wisconsin .....	NA	126,608	113,032	16,222	8,154	82,974
Wyoming .....	10,673	11,790	10,587	1,175	646	330
<b>Total .....</b>	<b>4,279,794</b>	<b>4,503,692</b>	<b>4,092,474</b>	<b>505,177</b>	<b>236,421</b>	<b>131,837</b>

See footnotes at end of table.

**Table 15. Natural Gas Deliveries to Residential Consumers, by State, 1995-1997**  
(Million Cubic Feet) — Continued

State	1997					
	August	July	June	May	April	March
Alabama .....	1,238	1,392	1,604	2,638	3,180	5,326
Alaska .....	402	463	508	789	1,177	1,207
Arizona .....	910	1,019	1,154	1,571	2,259	4,235
Arkansas .....	918	1,028	1,240	2,324	3,293	4,942
California .....	20,951	26,840	23,572	28,707	39,271	48,377
Colorado .....	NA	NA	NA	NA	8,929	NA
Connecticut .....	903	949	1,380	2,332	4,378	5,176
Delaware .....	178	194	318	557	942	1,265
District of Columbia .....	372	419	562	944	1,316	2,049
Florida .....	742	785	856	944	1,013	1,279
Georgia .....	2,944	3,195	3,357	3,834	8,221	9,001
Hawaii .....	41	43	41	42	41	46
Idaho .....	294	346	433	939	1,464	1,909
Illinois .....	10,111	10,378	11,617	26,081	41,192	61,416
Indiana .....	2,989	2,852	4,958	9,482	15,219	20,684
Iowa .....	1,472	1,593	2,102	3,938	6,971	9,528
Kansas .....	1,616	1,862	1,652	3,581	6,402	8,769
Kentucky .....	1,077	1,419	1,572	2,954	4,883	7,293
Louisiana .....	1,671	1,685	2,050	2,824	3,680	5,619
Maine .....	26	21	34	56	85	142
Maryland .....	1,800	1,906	2,677	4,215	6,913	8,998
Massachusetts .....	2,437	2,831	4,370	6,917	12,122	15,127
Michigan .....	7,264	4,748	12,010	26,958	38,256	51,299
Minnesota .....	2,556	2,706	3,499	6,775	11,435	16,959
Mississippi .....	NA	NA	920	1,463	1,904	3,038
Missouri .....	2,403	2,717	3,665	6,474	11,030	15,422
Montana .....	447	411	631	1,143	1,996	2,468
Nebraska .....	937	1,015	1,485	3,177	4,355	6,232
Nevada .....	777	887	981	1,419	2,018	3,172
New Hampshire .....	155	160	263	465	744	913
New Jersey .....	4,680	5,102	6,457	11,258	18,139	31,984
New Mexico .....	843	815	238	1,952	1,503	3,810
New York .....	NA	NA	NA	NA	NA	NA
North Carolina .....	900	1,074	1,599	2,991	4,087	5,811
North Dakota .....	206	228	333	730	1,178	1,576
Ohio .....	6,202	7,533	9,785	21,575	33,023	44,153
Oklahoma .....	1,519	1,679	2,105	3,857	6,160	9,070
Oregon .....	670	836	1,029	1,920	3,206	4,350
Pennsylvania .....	4,714	5,153	7,583	15,446	25,130	33,537
Rhode Island .....	443	480	727	1,171	1,994	2,462
South Carolina .....	444	512	701	1,230	1,776	2,592
South Dakota .....	233	248	368	784	1,250	1,625
Tennessee .....	1,080	1,119	NA	3,019	4,797	NA
Texas .....	6,101	6,829	7,595	10,420	14,025	22,686
Utah .....	1,466	1,501	1,601	1,821	4,875	5,945
Vermont .....	52	57	97	189	283	383
Virginia .....	1,473	1,576	2,054	4,227	6,662	9,123
Washington .....	NA	NA	3,055	5,591	4,586	8,132
West Virginia .....	594	488	961	2,246	3,421	4,318
Wisconsin .....	<sup>R</sup> 2,550	<sup>R</sup> 2,878	<sup>R</sup> 2,965	<sup>R</sup> 7,456	<sup>R</sup> 11,112	<sup>R</sup> 17,378
Wyoming .....	252	294	395	1,076	1,058	1,544
<b>Total .....</b>	<sup>R</sup> 119,068	<sup>R</sup> 130,638	<sup>R</sup> 159,944	<sup>R</sup> 285,439	<sup>R</sup> 433,307	<sup>R</sup> 604,295

See footnotes at end of table.

**Table 15. Natural Gas Deliveries to Residential Consumers, by State, 1995-1997**  
(Million Cubic Feet) — Continued

State	1997		1996			
	February	January	Total	December	November	October
Alabama .....	9,098	9,290	56,522	6,664	3,461	1,647
Alaska .....	2,025	2,402	16,179	2,181	1,708	1,238
Arizona .....	5,092	5,978	27,709	4,051	2,322	1,082
Arkansas .....	7,754	8,285	46,289	6,286	3,768	1,425
California .....	66,688	75,103	473,310	62,905	43,702	30,462
Colorado .....	NA	NA	110,924	15,814	9,571	4,886
Connecticut .....	6,538	6,255	43,764	5,842	3,522	1,840
Delaware .....	1,612	1,549	9,791	1,236	648	291
District of Columbia .....	2,655	2,708	17,290	2,406	1,252	578
Florida .....	2,068	2,167	16,293	1,583	972	752
Georgia .....	16,024	21,550	127,062	18,574	14,651	5,771
Hawaii .....	49	51	540	44	41	39
Idaho .....	2,542	2,564	14,941	2,224	1,570	646
Illinois .....	69,338	100,053	538,749	80,922	63,715	28,081
Indiana .....	26,294	32,779	179,939	26,087	18,577	7,846
Iowa .....	11,881	17,568	88,078	14,138	9,782	3,620
Kansas .....	12,105	15,803	85,376	14,388	9,447	3,163
Kentucky .....	8,964	13,942	70,232	10,177	9,022	3,018
Louisiana .....	8,991	9,736	56,626	6,173	3,511	2,102
Maine .....	133	166	967	120	105	67
Maryland .....	12,080	13,687	85,533	11,426	7,828	3,738
Massachusetts .....	17,654	NA	114,365	13,947	9,943	5,012
Michigan .....	57,545	66,871	399,522	52,724	38,862	18,528
Minnesota .....	19,966	25,740	142,319	22,152	14,959	6,705
Mississippi .....	4,968	5,050	30,157	3,676	1,880	929
Missouri .....	23,426	25,499	137,225	20,539	11,687	4,321
Montana .....	3,038	3,897	22,175	3,286	2,458	1,267
Nebraska .....	7,829	9,692	48,989	7,283	4,043	2,173
Nevada .....	3,825	4,470	22,607	3,386	2,069	894
New Hampshire .....	1,136	1,061	7,012	855	667	312
New Jersey .....	34,709	35,729	222,619	29,983	18,933	9,917
New Mexico .....	5,630	7,320	33,689	5,663	3,689	1,330
New York .....	NA	NA	403,264	NA	NA	NA
North Carolina .....	10,002	10,050	58,812	8,607	4,461	1,701
North Dakota .....	1,984	2,313	12,591	1,894	1,256	554
Ohio .....	52,497	65,225	374,824	52,480	38,565	18,651
Oklahoma .....	12,687	13,920	76,629	11,298	5,722	2,267
Oregon .....	5,308	5,857	33,236	5,200	3,164	1,357
Pennsylvania .....	41,287	45,992	278,606	36,688	27,037	13,202
Rhode Island .....	2,891	2,890	18,839	2,350	1,416	738
South Carolina .....	4,994	5,097	29,406	4,336	2,168	800
South Dakota .....	2,089	2,735	14,085	2,243	1,414	578
Tennessee .....	12,086	12,795	70,423	10,177	5,949	1,987
Texas .....	33,154	42,706	229,318	33,952	17,793	9,479
Utah .....	8,366	9,876	54,344	8,203	5,749	4,215
Vermont .....	416	419	2,523	302	208	100
Virginia .....	11,741	13,126	76,214	10,946	7,388	2,879
Washington .....	9,377	10,885	62,689	9,804	6,207	2,930
West Virginia .....	5,630	5,969	37,390	5,166	3,391	1,609
Wisconsin .....	<sup>R</sup> 19,323	26,165	147,893	21,285	16,724	7,783
Wyoming .....	1,660	2,243	13,534	1,744	1,334	1,087
<b>Total</b> .....	<sup>R</sup> 765,683	907,986	5,241,414	737,722	502,981	243,121

See footnotes at end of table.

**Table 15. Natural Gas Deliveries to Residential Consumers, by State, 1995-1997**  
(Million Cubic Feet) — Continued

State	1996					
	September	August	July	June	May	April
Alabama .....	1,321	1,227	1,295	1,472	2,948	6,321
Alaska .....	589	544	493	647	964	1,424
Arizona .....	900	836	916	1,089	1,328	2,155
Arkansas .....	1,044	955	930	1,202	1,967	4,846
California .....	26,104	21,757	18,649	25,996	30,001	36,723
Colorado .....	2,773	2,505	2,869	4,316	6,901	11,526
Connecticut .....	992	954	1,088	1,274	2,303	4,399
Delaware .....	181	175	196	310	516	1,116
District of Columbia .....	401	380	412	582	807	1,712
Florida .....	690	658	741	786	1,016	1,640
Georgia .....	3,092	2,972	3,179	3,115	4,272	9,875
Hawaii .....	41	40	42	45	44	49
Idaho .....	364	277	300	542	976	1,315
Illinois .....	13,137	9,546	11,346	12,437	27,063	43,288
Indiana .....	3,617	3,117	3,201	4,513	8,919	16,823
Iowa .....	1,954	1,610	1,663	2,343	4,187	6,945
Kansas .....	1,973	1,640	1,836	1,734	3,054	6,313
Kentucky .....	1,389	1,253	1,108	1,335	2,255	5,565
Louisiana .....	1,836	1,831	1,820	1,977	2,562	5,158
Maine .....	28	23	25	29	49	81
Maryland .....	2,207	2,064	2,139	2,709	4,136	7,257
Massachusetts .....	2,677	2,463	2,814	3,930	7,569	11,564
Michigan .....	9,068	7,300	7,657	10,619	24,645	40,288
Minnesota .....	2,968	2,433	2,583	3,708	7,335	12,254
Mississippi .....	804	771	816	839	1,366	3,174
Missouri .....	2,749	2,448	2,688	3,404	6,252	13,133
Montana .....	634	431	462	745	1,400	2,028
Nebraska .....	1,017	932	985	1,475	2,651	4,786
Nevada .....	732	678	779	1,011	1,264	1,884
New Hampshire .....	169	155	159	233	426	698
New Jersey .....	5,472	4,715	5,103	6,412	11,915	20,410
New Mexico .....	844	836	1,623	1,701	610	2,586
New York .....	NA	NA	10,129	14,186	25,231	41,232
North Carolina .....	913	862	889	1,210	2,131	6,189
North Dakota .....	256	209	212	356	736	1,320
Ohio .....	7,026	6,306	7,210	10,315	17,670	34,510
Oklahoma .....	1,679	1,515	1,628	1,989	3,321	7,697
Oregon .....	821	673	839	1,386	2,300	2,821
Pennsylvania .....	5,907	5,295	5,688	7,575	13,490	25,624
Rhode Island .....	467	450	484	692	1,216	1,901
South Carolina .....	476	419	425	547	954	2,996
South Dakota .....	316	231	239	464	803	1,367
Tennessee .....	1,190	1,101	1,166	1,327	2,355	7,058
Texas .....	7,495	6,534	7,216	7,819	9,574	19,123
Utah .....	2,540	1,416	1,533	1,351	2,252	4,540
Vermont .....	56	47	51	85	167	268
Virginia .....	1,414	1,424	1,502	2,088	2,536	6,501
Washington .....	1,572	1,250	1,628	2,610	4,456	5,418
West Virginia .....	696	537	590	817	1,652	3,877
Wisconsin .....	3,130	2,726	2,753	4,415	8,015	12,774
Wyoming .....	368	265	273	510	922	1,292
<b>Total</b> .....	<b>137,556</b>	<b>118,296</b>	<b>124,371</b>	<b>162,277</b>	<b>271,486</b>	<b>473,842</b>

<sup>R</sup> = Revised Data.

NA = Not Available.

Notes: Geographic coverage is the 50 States and the District of Columbia. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

**Table 16. Natural Gas Deliveries to Commercial Consumers, by State, 1995-1997**  
(Million Cubic Feet)

State	YTD 1997	YTD 1996	YTD 1995	1997		
				November	October	September
Alabama .....	30,499	25,877	22,726	2,540	2,107	2,375
Alaska .....	20,507	24,079	21,789	2,304	<sup>R</sup> 2,221	1,336
Arizona .....	26,792	25,727	25,408	2,273	1,754	1,839
Arkansas .....	25,522	27,130	23,098	2,726	1,352	1,133
California .....	228,266	210,233	252,609	21,235	19,673	18,468
Colorado .....	NA	59,886	59,357	NA	NA	NA
Connecticut .....	NA	34,884	33,388	3,208	NA	1,560
Delaware .....	5,683	5,873	4,891	520	282	233
District of Columbia .....	14,742	14,022	14,842	1,354	899	852
Florida .....	33,811	37,980	36,500	3,203	2,687	2,561
Georgia .....	49,483	53,915	48,474	6,146	3,654	2,811
Hawaii .....	NA	1,956	2,021	NA	171	166
Idaho .....	NA	9,885	9,060	982	585	<sup>R</sup> 411
Illinois .....	178,474	185,629	173,068	23,244	12,431	6,546
Indiana .....	NA	75,077	69,718	9,608	<sup>R</sup> 5,146	2,667
Iowa .....	43,052	46,061	42,155	5,681	3,031	1,358
Kansas .....	45,554	48,042	43,272	4,780	2,508	2,087
Kentucky .....	NA	35,080	32,184	4,223	NA	1,268
Louisiana .....	NA	23,311	21,220	1,988	1,330	<sup>R</sup> 1,250
Maine .....	2,338	2,256	2,038	289	176	91
Maryland .....	46,889	40,410	39,336	8,614	2,917	2,271
Massachusetts .....	94,338	84,435	70,676	8,664	7,063	5,488
Michigan .....	170,764	175,268	164,156	19,536	10,084	6,211
Minnesota .....	81,235	83,527	76,819	10,831	5,320	2,563
Mississippi .....	NA	19,892	17,277	2,026	<sup>R</sup> 1,157	NA
Missouri .....	NA	62,598	55,388	6,200	NA	2,196
Montana .....	11,927	12,699	11,590	1,299	793	423
Nebraska .....	NA	35,801	30,768	3,487	2,351	1,868
Nevada .....	19,255	18,004	16,832	1,797	1,270	1,192
New Hampshire .....	NA	6,204	5,525	703	411	NA
New Jersey .....	127,042	131,598	118,051	13,739	7,215	6,062
New Mexico .....	22,195	22,913	21,014	2,423	1,160	1,020
New York .....	NA	220,771	201,044	NA	NA	NA
North Carolina .....	33,335	35,306	32,083	3,490	2,057	1,751
North Dakota .....	10,018	10,424	9,921	1,163	588	344
Ohio .....	149,628	163,668	147,511	15,333	8,472	4,083
Oklahoma .....	38,103	40,137	34,475	3,390	2,126	1,659
Oregon .....	22,039	22,002	19,583	2,016	1,363	1,023
Pennsylvania .....	126,552	132,309	121,139	14,246	9,659	5,298
Rhode Island .....	10,890	11,009	10,541	1,212	637	460
South Carolina .....	18,042	17,881	16,454	1,771	1,176	1,904
South Dakota .....	9,115	9,786	9,233	1,022	549	334
Tennessee .....	NA	50,899	43,554	9,233	2,846	2,120
Texas .....	186,202	160,496	187,152	20,862	14,187	15,035
Utah .....	25,978	25,324	23,101	3,187	2,020	1,124
Vermont .....	2,648	2,477	2,262	282	184	108
Virginia .....	52,881	51,773	48,661	5,455	3,489	2,392
Washington .....	NA	41,516	37,295	NA	NA	NA
West Virginia .....	23,480	24,625	22,339	2,904	1,576	1,195
Wisconsin .....	NA	80,448	71,071	10,586	5,664	<sup>R</sup> 2,901
Wyoming .....	NA	7,973	8,792	1,065	633	NA
<b>Total .....</b>	<b>2,802,810</b>	<b>2,749,079</b>	<b>2,611,457</b>	<b>316,688</b>	<b><sup>R</sup>187,115</b>	<b><sup>R</sup>139,555</b>

See footnotes at end of table.

**Table 16. Natural Gas Deliveries to Commercial Consumers, by State, 1995-1997**  
(Million Cubic Feet) — Continued

State	1997					
	August	July	June	May	April	March
Alabama .....	3,087	3,497	1,779	2,020	2,194	2,613
Alaska .....	<sup>R</sup> 1,104	1,167	1,191	1,546	1,914	<sup>R</sup> 2,482
Arizona .....	1,770	1,939	1,976	2,141	2,563	3,153
Arkansas .....	1,132	1,133	1,219	1,653	2,172	3,149
California .....	18,728	17,971	16,572	18,994	21,091	23,612
Colorado .....	NA	NA	NA	NA	6,121	NA
Connecticut .....	1,754	1,895	1,986	2,586	4,055	4,797
Delaware .....	183	206	281	420	628	858
District of Columbia .....	853	783	951	1,373	842	2,183
Florida .....	2,651	2,578	2,917	2,902	3,017	3,307
Georgia .....	2,626	2,709	2,800	3,216	4,152	4,864
Hawaii .....	160	175	170	166	174	180
Idaho .....	356	373	399	686	1,041	1,345
Illinois .....	5,935	6,084	6,145	10,664	16,797	23,444
Indiana .....	2,551	2,428	6,344	9,965	7,610	10,465
Iowa .....	1,110	1,306	1,262	2,376	3,976	5,758
Kansas .....	<sup>R</sup> 2,685	<sup>R</sup> 3,283	<sup>R</sup> 2,078	2,798	4,004	6,012
Kentucky .....	967	1,176	1,181	1,890	2,913	4,093
Louisiana .....	1,195	1,350	1,408	1,492	1,837	3,313
Maine .....	78	72	92	152	231	378
Maryland .....	2,226	2,378	2,305	2,735	4,420	5,563
Massachusetts .....	5,776	5,555	7,151	6,266	9,068	11,630
Michigan .....	5,889	2,278	7,664	13,205	19,207	25,654
Minnesota .....	2,522	2,496	3,004	5,155	8,361	12,000
Mississippi .....	NA	NA	1,176	1,237	1,533	2,106
Missouri .....	2,054	2,151	2,457	3,569	5,786	7,970
Montana .....	383	363	451	714	1,342	1,652
Nebraska .....	<sup>R</sup> 2,896	<sup>R</sup> 5,042	<sup>R</sup> 1,728	2,430	3,190	4,117
Nevada .....	1,145	1,097	1,409	1,666	1,896	2,442
New Hampshire .....	217	216	286	472	739	954
New Jersey .....	5,793	6,094	7,027	9,816	13,645	21,543
New Mexico .....	997	984	960	1,766	1,862	2,935
New York .....	NA	NA	NA	NA	NA	NA
North Carolina .....	1,629	1,548	1,770	2,401	2,973	3,806
North Dakota .....	291	305	343	619	1,095	1,408
Ohio .....	3,557	3,288	5,204	11,339	15,190	23,205
Oklahoma .....	1,626	1,649	1,517	2,617	3,571	5,041
Oregon .....	912	1,007	1,067	1,574	2,304	3,076
Pennsylvania .....	3,779	4,680	5,554	10,354	13,007	17,888
Rhode Island .....	399	431	537	892	1,144	1,740
South Carolina .....	1,019	997	1,214	1,278	1,379	1,816
South Dakota .....	250	246	283	604	940	1,235
Tennessee .....	2,064	2,090	NA	3,242	4,276	NA
Texas .....	15,234	15,315	11,993	12,860	13,790	18,114
Utah .....	943	927	946	1,268	2,675	3,363
Vermont .....	80	80	108	160	296	429
Virginia .....	2,449	2,370	2,681	4,381	5,762	7,212
Washington .....	NA	NA	2,917	4,098	4,100	5,627
West Virginia .....	1,292	1,044	1,181	1,693	2,222	2,816
Wisconsin .....	<sup>R</sup> 2,961	<sup>R</sup> 2,769	<sup>R</sup> 2,868	<sup>R</sup> 5,507	<sup>R</sup> 7,225	<sup>R</sup> 10,989
Wyoming .....	345	943	633	1,065	1,445	1,593
<b>Total .....</b>	<sup>R</sup> 137,439	<sup>R</sup> 138,123	<sup>R</sup> 148,309	<sup>R</sup> 206,302	<sup>R</sup> 267,072	<sup>R</sup> 359,280

See footnotes at end of table.



**Table 16. Natural Gas Deliveries to Commercial Consumers, by State, 1995-1997**  
(Million Cubic Feet) — Continued

State	1997		1996			
	February	January	Total	December	November	October
Alabama .....	4,063	4,224	29,002	3,123	1,991	1,402
Alaska .....	<sup>R</sup> 2,198	3,042	27,315	3,236	2,743	2,337
Arizona .....	3,525	3,858	29,102	3,259	2,461	1,748
Arkansas .....	4,730	5,123	31,009	3,876	2,462	1,356
California .....	26,107	25,816	236,332	24,836	21,313	18,727
Colorado .....	NA	NA	68,931	9,028	5,807	3,306
Connecticut .....	5,346	5,792	39,818	4,902	3,112	2,400
Delaware .....	1,046	1,025	6,695	821	502	277
District of Columbia .....	2,316	2,335	16,353	2,325	1,195	804
Florida .....	3,862	4,126	41,898	3,830	3,179	2,957
Georgia .....	7,924	8,582	61,377	7,462	5,450	3,339
Hawaii .....	188	188	2,132	176	160	170
Idaho .....	1,784	1,816	11,540	1,621	1,107	597
Illinois .....	30,059	37,125	218,086	32,425	25,216	12,090
Indiana .....	12,807	15,715	87,568	12,378	9,122	4,102
Iowa .....	7,056	10,137	54,576	8,510	5,896	2,101
Kansas .....	8,130	7,190	57,231	9,187	4,867	2,057
Kentucky .....	5,483	7,206	40,980	5,892	4,439	2,241
Louisiana .....	3,574	3,979	25,769	2,435	1,680	1,395
Maine .....	348	433	2,566	310	280	172
Maryland .....	6,380	7,080	45,891	5,433	4,693	2,427
Massachusetts .....	13,854	13,824	96,192	11,752	9,718	5,432
Michigan .....	28,433	32,603	201,431	26,123	19,486	9,472
Minnesota .....	13,403	15,580	98,580	15,009	10,756	5,479
Mississippi .....	3,062	3,226	22,230	2,333	1,631	1,088
Missouri .....	12,828	12,556	72,833	10,204	6,136	2,959
Montana .....	1,947	2,558	14,836	2,123	1,659	848
Nebraska .....	<sup>R</sup> 4,845	5,907	40,833	5,032	3,678	2,778
Nevada .....	2,629	2,711	20,469	2,417	1,817	1,269
New Hampshire .....	1,079	1,073	7,099	896	698	360
New Jersey .....	14,211	21,897	150,432	18,834	12,586	7,731
New Mexico .....	3,938	4,151	26,544	3,553	2,450	1,365
New York .....	NA	NA	253,129	NA	NA	NA
North Carolina .....	5,850	6,059	40,467	5,160	3,240	1,917
North Dakota .....	1,879	1,982	12,165	1,726	1,286	661
Ohio .....	28,174	31,783	190,195	26,298	18,274	8,548
Oklahoma .....	7,183	7,724	46,284	6,014	3,273	1,900
Oregon .....	3,686	4,011	25,622	3,595	2,314	1,306
Pennsylvania .....	19,583	22,506	154,677	22,333	15,107	8,161
Rhode Island .....	1,744	1,694	12,301	1,290	972	648
South Carolina .....	2,689	2,799	20,329	2,447	1,644	1,157
South Dakota .....	1,607	2,045	11,602	1,813	1,237	571
Tennessee .....	9,488	9,084	58,513	7,599	5,116	2,830
Texas .....	21,368	27,444	178,573	18,053	12,865	10,151
Utah .....	4,473	5,051	29,666	4,220	3,185	2,073
Vermont .....	444	477	2,825	348	276	162
Virginia .....	8,021	8,670	59,294	7,489	5,776	3,363
Washington .....	6,275	7,474	48,252	6,623	4,489	2,701
West Virginia .....	3,652	3,903	28,030	3,400	2,494	1,620
Wisconsin .....	<sup>R</sup> 12,071	<sup>R</sup> 15,922	93,868	13,368	11,029	4,694
Wyoming .....	1,423	1,681	9,735	1,748	1,301	640
<b>Total</b> .....	<sup>R</sup> 423,060	<sup>R</sup> 479,866	3,161,176	409,165	294,522	171,277

See footnotes at end of table.

**Table 16. Natural Gas Deliveries to Commercial Consumers, by State, 1995-1997**  
(Million Cubic Feet) — Continued

State	1996					
	September	August	July	June	May	April
Alabama .....	1,207	1,133	1,169	1,234	1,716	2,881
Alaska .....	1,617	1,396	1,337	1,458	1,789	2,364
Arizona .....	1,680	1,753	1,779	1,987	2,110	2,532
Arkansas .....	1,106	1,060	1,056	1,052	1,519	2,964
California .....	17,544	17,540	17,155	15,772	16,348	17,358
Colorado .....	2,227	2,156	2,406	3,052	4,424	6,977
Connecticut .....	1,822	1,714	1,969	1,747	2,255	3,535
Delaware .....	223	203	202	245	365	691
District of Columbia .....	774	750	878	824	1,233	1,925
Florida .....	2,840	2,716	2,836	3,029	3,336	3,918
Georgia .....	2,673	2,594	2,737	2,508	3,297	5,425
Hawaii .....	171	166	176	176	172	190
Idaho .....	421	354	346	477	710	996
Illinois .....	7,125	5,314	5,426	5,695	9,659	17,937
Indiana .....	2,202	2,104	2,111	2,464	4,195	7,791
Iowa .....	1,926	1,080	1,212	1,664	2,734	4,783
Kansas .....	1,286	3,505	3,341	1,916	3,017	4,820
Kentucky .....	1,194	1,123	1,033	1,057	1,509	3,305
Louisiana .....	1,305	1,321	1,268	1,477	1,618	2,384
Maine .....	78	75	74	82	132	208
Maryland .....	1,922	1,866	1,608	1,816	2,672	3,766
Massachusetts .....	4,767	4,274	3,751	4,176	6,555	8,955
Michigan .....	6,146	5,383	5,673	6,343	12,272	19,664
Minnesota .....	2,867	2,254	2,377	3,072	5,383	8,798
Mississippi .....	1,078	1,198	1,156	1,069	1,256	1,987
Missouri .....	2,235	2,356	2,289	2,380	3,563	6,625
Montana .....	498	374	386	509	862	1,332
Nebraska .....	2,273	2,489	3,544	1,460	1,995	3,099
Nevada .....	1,116	1,062	1,145	1,286	1,454	1,811
New Hampshire .....	201	193	180	244	402	661
New Jersey .....	5,870	5,536	5,807	6,280	8,824	14,789
New Mexico .....	1,079	1,352	1,429	1,592	1,410	2,433
New York .....	NA	NA	NA	NA	NA	NA
North Carolina .....	1,658	1,575	1,415	1,586	1,970	3,760
North Dakota .....	410	301	271	348	677	1,142
Ohio .....	4,048	4,401	4,569	7,661	8,960	16,833
Oklahoma .....	1,759	1,678	1,798	1,770	2,222	4,413
Oregon .....	1,023	905	967	1,304	1,786	2,059
Pennsylvania .....	4,302	4,365	4,348	5,199	7,729	13,276
Rhode Island .....	581	443	421	446	757	1,251
South Carolina .....	1,041	957	940	997	1,154	1,884
South Dakota .....	352	283	288	385	619	1,059
Tennessee .....	2,354	1,979	1,962	2,145	2,682	5,317
Texas .....	8,830	12,079	12,459	12,257	14,205	17,134
Utah .....	1,279	874	904	892	1,356	2,479
Vermont .....	90	69	67	97	153	279
Virginia .....	2,401	2,081	2,517	2,928	3,465	5,137
Washington .....	1,920	1,697	1,857	2,672	3,434	4,147
West Virginia .....	1,171	1,259	1,317	1,062	1,511	2,457
Wisconsin .....	2,376	2,294	2,037	2,796	5,017	8,140
Wyoming .....	250	197	197	342	712	925
<b>Total</b> .....	<b>124,490</b>	<b>122,985</b>	<b>125,522</b>	<b>133,356</b>	<b>182,859</b>	<b>283,635</b>

<sup>R</sup> = Revised Data.

NA = Not Available.

Notes: Geographic coverage is the 50 States and the District of Columbia. Deliveries for total year 1996 may not equal the sum of the twelve months. Gas volumes delivered for use as vehicle fuel are included in the annual total but not in the monthly components. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy. In 1996, consumption of natural gas for agricultural use is classified as industrial use. In 1995 and earlier years, agricultural use was classified as commercial use. See Explanatory Note 5 for further explanation.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

**Table 17. Natural Gas Deliveries to Industrial Consumers, by State, 1995-1997**  
(Million Cubic Feet)

State	YTD 1997	YTD 1996	YTD 1995	1997		
				November	October	September
Alabama .....	187,373	184,398	186,270	17,910	17,161	16,150
Alaska .....	66,988	68,582	60,263	5,571	6,313	4,233
Arizona .....	24,445	24,443	25,367	2,360	2,335	2,582
Arkansas .....	133,844	128,748	126,805	12,751	12,471	11,035
California .....	667,320	631,921	631,477	61,447	60,283	65,816
Colorado .....	NA	75,779	66,700	NA	NA	NA
Connecticut .....	31,609	29,438	30,077	3,408	2,588	2,362
Delaware .....	13,260	13,016	18,112	1,327	1,202	1,107
District of Columbia .....	0	0	0	0	0	0
Florida .....	NA	125,562	117,816	12,056	12,083	NA
Georgia .....	158,188	165,842	167,291	12,468	12,817	12,855
Hawaii .....	0	0	0	—	0	0
Idaho <sup>a</sup> .....	NA	31,686	30,895	3,109	3,226	<sup>R</sup> 2,756
Illinois .....	285,837	286,473	285,761	27,702	24,750	22,004
Indiana .....	253,782	263,333	248,614	26,650	23,332	21,152
Iowa .....	100,744	103,040	102,864	10,199	9,886	8,468
Kansas .....	97,880	100,922	117,322	8,212	7,830	7,321
Kentucky .....	NA	84,835	81,930	8,835	NA	7,052
Louisiana .....	NA	961,567	959,111	80,707	84,368	NA
Maine .....	2,309	2,019	1,824	296	243	208
Maryland .....	47,640	45,066	45,856	263	4,308	4,427
Massachusetts .....	99,540	90,763	98,074	8,316	8,095	7,625
Michigan .....	294,863	314,289	293,850	27,735	24,470	23,655
Minnesota .....	92,629	92,569	95,300	9,674	8,759	7,183
Mississippi .....	NA	74,384	77,174	7,238	<sup>R</sup> 6,572	NA
Missouri .....	NA	65,023	61,739	6,057	NA	4,322
Montana .....	16,058	16,119	16,313	1,850	1,612	1,290
Nebraska .....	27,523	32,436	41,625	1,923	2,848	2,050
Nevada .....	28,570	29,747	27,939	2,499	2,689	2,654
New Hampshire .....	NA	4,512	4,259	442	499	NA
New Jersey .....	185,085	173,704	189,129	15,519	16,683	16,219
New Mexico .....	22,707	20,684	18,627	2,019	1,881	1,982
New York .....	NA	291,287	252,409	27,644	22,070	26,560
North Carolina .....	105,893	94,711	98,046	9,608	9,568	9,017
North Dakota .....	10,070	6,987	5,878	869	812	754
Ohio .....	304,167	314,038	300,918	30,107	26,986	24,750
Oklahoma .....	189,222	181,829	179,019	15,704	15,473	16,687
Oregon .....	80,186	79,256	62,486	8,694	8,284	8,041
Pennsylvania .....	213,179	222,410	227,770	21,509	17,230	16,783
Rhode Island .....	22,291	23,276	30,805	2,148	1,509	1,440
South Carolina .....	106,991	86,847	91,404	8,702	8,239	8,883
South Dakota .....	6,354	6,467	6,231	618	425	470
Tennessee .....	NA	114,281	114,454	12,242	11,242	13,313
Texas .....	NA	1,956,772	1,744,685	162,492	165,162	NA
Utah .....	39,786	38,519	38,568	4,129	4,228	2,497
Vermont .....	2,102	1,761	1,905	226	224	176
Virginia .....	76,871	74,575	87,679	6,522	5,914	6,951
Washington .....	NA	104,477	100,608	NA	NA	NA
West Virginia .....	46,504	45,554	47,663	4,353	4,150	4,032
Wisconsin .....	137,698	134,061	130,139	14,202	<sup>R</sup> 11,931	<sup>R</sup> 10,069
Wyoming .....	NA	45,606	44,266	4,328	NA	NA
<b>Total .....</b>	<b>7,970,260</b>	<b>8,063,617</b>	<b>7,793,319</b>	<b>727,940</b>	<b><sup>R</sup>706,721</b>	<b><sup>R</sup>687,131</b>

See footnotes at end of table.

**Table 17. Natural Gas Deliveries to Industrial Consumers, by State, 1995-1997**  
(Million Cubic Feet) — Continued

State	1997					
	August	July	June	May	April	March
Alabama .....	16,827	16,848	16,253	17,284	18,182	16,885
Alaska .....	6,395	5,968	5,915	5,619	6,443	6,993
Arizona .....	2,375	2,246	2,170	2,332	1,989	2,071
Arkansas .....	11,994	11,785	11,598	11,903	12,008	12,361
California .....	67,815	65,810	58,874	58,119	57,480	57,065
Colorado .....	NA	NA	NA	NA	6,831	NA
Connecticut .....	2,550	2,440	2,441	2,870	3,308	3,521
Delaware .....	1,017	1,106	1,156	1,308	1,354	1,249
District of Columbia .....	0	0	0	0	0	0
Florida .....	11,529	12,164	11,539	12,515	12,365	11,905
Georgia .....	13,575	12,874	12,448	16,828	16,740	16,153
Hawaii .....	0	0	0	0	0	0
Idaho <sup>a</sup> .....	2,371	2,723	2,724	2,673	3,180	3,200
Illinois .....	20,706	22,431	22,272	25,139	26,550	29,761
Indiana .....	20,475	19,853	17,289	19,839	23,608	26,703
Iowa .....	8,680	7,768	7,823	8,516	9,081	9,800
Kansas .....	<sup>R</sup> 7,998	<sup>R</sup> 11,607	<sup>R</sup> 8,284	8,904	8,519	9,297
Kentucky .....	7,079	6,526	6,669	7,704	7,769	8,408
Louisiana .....	84,275	NA	81,658	82,682	81,401	76,376
Maine .....	191	178	197	226	247	182
Maryland .....	5,019	4,767	5,126	4,734	4,495	5,528
Massachusetts .....	8,946	8,930	10,487	8,389	10,392	10,520
Michigan .....	23,705	16,029	25,327	27,343	27,854	32,629
Minnesota .....	7,771	6,780	7,681	7,566	8,338	9,333
Mississippi .....	NA	NA	6,054	5,804	6,535	6,721
Missouri .....	4,338	4,492	4,810	4,987	7,149	5,099
Montana .....	1,253	1,093	1,176	1,365	1,178	1,695
Nebraska .....	<sup>R</sup> 2,627	<sup>R</sup> 1,207	2,116	2,465	3,051	3,167
Nevada .....	2,675	2,517	2,519	2,791	2,424	2,665
New Hampshire .....	451	422	434	905	632	570
New Jersey .....	17,715	16,450	15,822	16,773	16,587	18,406
New Mexico .....	1,957	2,097	2,041	2,123	1,935	1,944
New York .....	NA	NA	NA	NA	NA	NA
North Carolina .....	9,696	9,102	9,195	9,687	10,561	10,341
North Dakota .....	817	473	707	911	867	1,574
Ohio .....	24,078	22,725	22,461	26,644	27,049	30,688
Oklahoma .....	17,620	16,618	17,536	17,339	17,335	17,207
Oregon .....	8,313	7,289	5,557	6,033	6,322	6,726
Pennsylvania .....	17,206	15,131	16,359	18,780	21,556	22,001
Rhode Island .....	1,491	2,159	2,265	2,401	2,514	2,241
South Carolina .....	11,873	<sup>R</sup> 17,104	8,451	9,122	9,260	9,152
South Dakota .....	499	322	492	531	624	705
Tennessee .....	13,153	10,831	NA	11,767	12,548	NA
Texas .....	172,857	166,725	165,999	166,759	164,032	182,742
Utah .....	3,369	3,482	3,408	3,633	3,757	3,777
Vermont .....	157	144	146	218	200	234
Virginia .....	8,927	8,064	5,864	7,452	6,449	4,162
Washington .....	NA	NA	8,005	8,513	8,189	9,259
West Virginia .....	4,106	3,991	3,905	4,439	6,731	2,577
Wisconsin .....	<sup>R</sup> 9,521	<sup>R</sup> 9,041	<sup>R</sup> 9,458	<sup>R</sup> 11,310	<sup>R</sup> 13,597	<sup>R</sup> 15,650
Wyoming .....	3,672	3,234	3,858	4,125	3,864	3,795
<b>Total</b> .....	<sup>R</sup> 717,327	<sup>R</sup> 692,173	<sup>R</sup> 679,635	<sup>R</sup> 712,788	<sup>R</sup> 730,804	<sup>R</sup> 764,382

See footnotes at end of table.

**Table 17. Natural Gas Deliveries to Industrial Consumers, by State, 1995-1997**  
(Million Cubic Feet) — Continued

State	1997		1996			
	February	January	Total	December	November	October
Alabama .....	16,341	17,534	201,414	17,016	16,951	18,097
Alaska .....	6,448	7,090	75,616	7,034	6,450	6,421
Arizona .....	1,944	2,041	26,979	2,536	2,436	2,363
Arkansas .....	12,195	13,744	141,300	12,552	12,171	12,008
California .....	55,756	58,855	693,539	61,618	59,107	57,199
Colorado .....	NA	NA	83,640	7,861	7,271	5,109
Connecticut .....	3,031	3,088	32,451	3,013	3,386	3,108
Delaware .....	1,192	1,243	14,164	1,148	1,180	1,338
District of Columbia .....	0	0	0	0	0	0
Florida .....	11,527	12,521	136,722	11,160	11,655	10,931
Georgia .....	16,385	15,044	181,768	15,926	15,856	15,569
Hawaii .....	0	0	0	0	0	0
Idaho <sup>a</sup> .....	2,802	3,166	34,577	2,891	2,747	3,023
Illinois .....	31,673	32,850	322,275	35,802	30,672	24,666
Indiana .....	25,597	29,284	289,219	25,886	24,549	23,056
Iowa .....	9,785	10,738	113,995	10,955	11,178	9,460
Kansas .....	8,058	11,851	110,294	9,372	9,897	7,314
Kentucky .....	8,964	10,483	94,481	9,646	8,705	7,555
Louisiana .....	78,331	83,077	1,048,432	86,865	89,171	89,370
Maine .....	162	180	2,190	171	234	239
Maryland .....	4,661	4,312	50,022	4,956	3,981	4,196
Massachusetts .....	10,375	7,465	100,015	9,252	8,643	9,419
Michigan .....	32,134	33,982	347,043	32,754	29,990	25,126
Minnesota .....	10,082	9,463	102,471	9,903	10,656	9,236
Mississippi .....	6,686	7,337	80,887	6,503	6,507	7,363
Missouri .....	9,463	7,097	71,533	6,510	6,157	4,963
Montana .....	1,634	1,913	18,103	1,985	1,668	1,554
Nebraska .....	3,090	2,979	36,125	3,689	3,179	3,248
Nevada .....	2,462	2,675	32,606	2,859	2,705	2,548
New Hampshire .....	411	411	4,916	404	529	471
New Jersey .....	15,694	19,217	200,933	27,230	17,727	14,853
New Mexico .....	2,119	2,608	22,858	2,173	1,875	1,799
New York .....	NA	NA	322,661	31,374	26,765	25,488
North Carolina .....	9,950	9,168	104,124	9,413	9,964	10,368
North Dakota .....	1,253	1,033	7,911	924	955	685
Ohio .....	32,631	36,048	347,149	33,111	30,242	27,432
Oklahoma .....	18,790	18,914	201,024	19,194	15,941	16,689
Oregon .....	6,525	8,402	87,754	8,498	8,526	8,657
Pennsylvania .....	23,241	23,384	243,499	21,089	22,617	19,275
Rhode Island .....	1,993	2,131	25,829	2,553	2,992	3,189
South Carolina .....	8,054	8,152	95,493	8,646	8,699	8,836
South Dakota .....	792	877	7,182	715	694	523
Tennessee .....	12,789	11,698	126,545	12,264	12,388	10,679
Texas .....	160,683	187,054	2,138,155	181,384	171,353	181,999
Utah .....	3,698	3,809	42,213	3,693	3,663	3,592
Vermont .....	197	181	1,953	191	211	174
Virginia .....	8,056	8,513	84,357	9,782	7,474	6,080
Washington .....	9,170	9,112	114,236	9,758	10,859	10,660
West Virginia .....	3,836	4,386	49,997	4,443	4,418	4,310
Wisconsin .....	<sup>R</sup> 14,948	<sup>R</sup> 17,970	149,517	15,456	14,652	11,984
Wyoming .....	3,792	5,060	50,253	4,647	4,741	4,678
<b>Total</b> .....	<sup>R</sup> 746,944	<sup>R</sup> 804,415	8,870,422	806,805	764,387	736,900

See footnotes at end of table.

**Table 17. Natural Gas Deliveries to Industrial Consumers, by State, 1995-1997**  
(Million Cubic Feet) — Continued

State	1996					
	September	August	July	June	May	April
Alabama .....	16,712	15,966	16,304	15,508	16,367	16,867
Alaska .....	6,288	6,961	6,577	6,268	5,808	6,123
Arizona .....	2,246	2,125	2,175	2,126	1,640	2,330
Arkansas .....	10,821	11,492	11,423	11,344	10,729	11,412
California .....	57,688	62,705	58,086	52,431	58,146	56,490
Colorado .....	6,270	7,792	7,657	5,366	5,700	7,856
Connecticut .....	2,589	2,561	2,311	2,438	2,423	2,778
Delaware .....	1,138	1,116	1,122	1,303	1,206	1,046
District of Columbia .....	0	0	0	0	0	0
Florida .....	11,324	11,135	11,167	10,635	12,532	11,288
Georgia .....	15,136	15,887	13,599	14,461	15,625	15,871
Hawaii .....	0	0	0	0	0	0
Idaho <sup>a</sup> .....	2,802	2,409	2,697	2,699	2,850	2,856
Illinois .....	19,734	20,575	18,553	20,876	24,750	26,670
Indiana .....	20,528	19,795	20,302	42,381	8,491	23,219
Iowa .....	7,445	8,696	8,238	8,322	9,074	9,594
Kansas .....	8,141	9,817	9,579	9,392	8,177	9,070
Kentucky .....	6,589	6,259	6,006	8,486	6,325	7,365
Louisiana .....	87,576	87,989	87,008	90,218	87,124	86,136
Maine .....	185	177	144	186	181	155
Maryland .....	4,055	4,335	4,202	3,918	4,016	4,940
Massachusetts .....	8,119	9,040	7,437	7,365	6,897	8,263
Michigan .....	24,187	23,728	24,101	25,308	27,715	30,370
Minnesota .....	7,719	7,451	7,596	7,500	7,602	8,293
Mississippi .....	6,432	6,200	6,446	6,233	6,383	6,796
Missouri .....	4,540	5,883	4,219	4,744	5,645	6,518
Montana .....	1,382	1,429	1,267	1,215	1,331	1,356
Nebraska .....	2,452	2,467	2,479	2,616	2,652	3,106
Nevada .....	2,728	2,787	2,862	2,723	2,873	2,538
New Hampshire .....	392	393	371	378	434	434
New Jersey .....	14,574	11,728	16,131	14,290	16,050	17,290
New Mexico .....	1,751	1,774	1,801	1,855	1,630	1,967
New York .....	25,312	26,927	25,513	25,268	23,861	26,802
North Carolina .....	8,412	8,358	8,237	8,249	8,608	9,026
North Dakota .....	552	425	401	530	668	719
Ohio .....	22,996	23,427	22,090	28,997	26,200	28,656
Oklahoma .....	16,741	17,073	16,822	14,616	15,859	14,961
Oregon .....	7,954	7,886	7,326	6,794	6,702	5,968
Pennsylvania .....	17,697	18,213	16,820	18,056	19,705	20,625
Rhode Island .....	2,921	2,998	1,684	2,159	2,128	1,975
South Carolina .....	7,982	8,162	7,955	7,868	8,550	8,454
South Dakota .....	427	471	461	456	473	497
Tennessee .....	10,240	9,810	9,723	9,956	9,308	9,854
Texas .....	186,067	171,985	163,216	172,584	180,659	179,407
Utah .....	3,436	3,374	3,253	3,162	3,364	3,424
Vermont .....	151	155	107	154	178	135
Virginia .....	5,162	7,113	6,792	4,243	7,255	6,290
Washington .....	10,161	9,892	8,911	7,653	8,599	8,797
West Virginia .....	4,596	3,932	3,912	3,706	3,925	3,953
Wisconsin .....	9,773	9,274	8,609	8,845	10,786	12,912
Wyoming .....	3,699	3,851	3,568	4,082	3,988	4,135
<b>Total .....</b>	<b>705,823</b>	<b>703,997</b>	<b>677,260</b>	<b>709,964</b>	<b>701,193</b>	<b>735,588</b>

<sup>a</sup> Small volumes of natural gas representing onsystem sales to industrial consumers in Idaho are included in the annual total but not in monthly components. Deliveries for total year 1995 in Idaho do not equal the sum of the twelve months.

<sup>R</sup> = Revised Data.

<sup>NA</sup> = Not Available.

— = Not Applicable.

Notes: Geographic coverage is the 50 States and the District of Columbia. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy. In 1996, consumption of natural gas for agricultural use is classified as industrial use. In 1995 and earlier years, agricultural use was classified as commercial use. See Explanatory Note 5 for further explanation.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

**Table 18. Natural Gas Deliveries to Electric Utility<sup>a</sup> Consumers,  
by State, 1995-1997**  
(Million Cubic Feet)

State	YTD 1997	YTD 1996	YTD 1995	1997		
				November	October	September
Alabama .....	9,911	5,854	7,271	295	846	1,247
Alaska .....	30,489	28,689	27,280	2,674	2,686	2,295
Arizona .....	22,637	18,805	18,336	399	1,543	5,105
Arkansas .....	24,824	32,762	31,937	380	2,322	3,419
California .....	351,731	300,853	370,754	22,422	35,144	56,542
Colorado .....	5,129	5,056	3,538	388	646	672
Connecticut .....	15,797	10,325	19,266	1,448	1,825	1,725
Delaware .....	15,396	22,322	25,047	681	356	667
District of Columbia .....	0	0	0	0	0	0
Florida .....	272,891	270,433	301,799	14,152	21,021	26,634
Georgia .....	7,286	4,631	7,817	124	307	1,158
Hawaii .....	0	0	0	0	0	0
Idaho .....	0	0	0	0	0	0
Illinois .....	40,030	25,314	36,362	3,947	3,834	2,400
Indiana .....	4,521	4,094	7,677	212	282	243
Iowa .....	4,142	3,255	3,469	265	483	247
Kansas .....	23,605	21,935	26,855	2,455	2,618	2,092
Kentucky .....	2,036	1,754	697	190	200	181
Louisiana .....	260,439	239,218	306,207	14,538	22,047	30,524
Maine .....	0	0	0	0	0	0
Maryland .....	10,800	8,244	18,692	364	749	623
Massachusetts .....	48,922	43,475	62,890	3,175	3,127	4,783
Michigan .....	30,508	29,671	32,244	3,159	3,266	2,944
Minnesota .....	6,006	4,881	8,036	139	383	290
Mississippi .....	68,520	79,580	104,803	4,060	5,427	8,117
Missouri .....	7,206	5,154	12,595	342	561	754
Montana .....	399	398	362	30	40	27
Nebraska .....	2,662	2,268	2,794	78	359	267
Nevada .....	48,138	44,455	37,449	1,803	4,364	6,211
New Hampshire .....	590	3	2,248	26	60	60
New Jersey .....	28,987	25,380	43,699	1,340	2,085	1,349
New Mexico .....	31,382	27,725	30,082	2,224	3,224	2,834
New York .....	196,762	137,580	237,491	12,308	16,058	19,107
North Carolina .....	4,510	2,380	3,080	25	507	433
North Dakota .....	1	3	1	0	0	0
Ohio .....	3,335	2,761	7,143	243	393	266
Oklahoma .....	117,990	130,329	144,864	8,271	10,105	14,088
Oregon .....	10,539	13,680	18,682	1,072	2,757	2,758
Pennsylvania .....	7,007	6,957	24,430	212	301	418
Rhode Island .....	24,561	22,905	2,941	2,488	2,503	2,365
South Carolina .....	2,696	1,186	6,603	112	240	212
South Dakota .....	1,648	690	905	90	45	88
Tennessee .....	1,636	572	2,055	0	209	0
Texas .....	987,176	987,823	985,858	72,433	90,889	126,080
Utah .....	3,353	3,287	8,520	150	116	784
Vermont .....	32	21	91	2	4	2
Virginia .....	9,951	9,942	15,653	356	736	545
Washington .....	2,431	6,569	6,344	220	164	1,191
West Virginia .....	207	162	387	2	17	15
Wisconsin .....	15,381	6,600	8,679	402	746	700
Wyoming .....	80	81	120	15	5	5
<b>Total .....</b>	<b>2,764,280</b>	<b>2,600,062</b>	<b>3,024,051</b>	<b>179,712</b>	<b>245,601</b>	<b>332,464</b>

See footnotes at end of table.

**Table 18. Natural Gas Deliveries to Electric Utility<sup>a</sup> Consumers,  
by State, 1995-1997**  
(Million Cubic Feet) — Continued

State	1997					
	August	July	June	May	April	March
Alabama .....	2,373	2,901	931	483	386	168
Alaska .....	2,439	2,736	2,580	2,903	2,924	3,594
Arizona .....	4,809	4,118	1,932	2,742	723	588
Arkansas .....	5,336	7,586	3,488	583	614	253
California .....	48,250	43,994	26,546	37,243	25,412	24,423
Colorado .....	721	710	340	397	267	328
Connecticut .....	2,303	2,416	1,366	1,141	1,229	944
Delaware .....	1,592	2,003	1,097	1,064	1,841	2,280
District of Columbia .....	0	0	0	0	0	0
Florida .....	33,367	33,080	31,138	29,415	27,872	28,725
Georgia .....	2,197	2,592	439	203	176	30
Hawaii .....	0	0	0	0	0	0
Idaho .....	0	0	0	0	0	0
Illinois .....	3,847	8,073	4,639	2,931	4,976	2,503
Indiana .....	480	1,690	721	210	200	199
Iowa .....	393	887	416	286	269	405
Kansas .....	3,457	6,295	3,113	1,226	840	553
Kentucky .....	311	525	170	21	117	130
Louisiana .....	34,549	39,943	29,948	25,570	19,113	15,854
Maine .....	0	0	0	0	0	0
Maryland .....	1,051	3,382	1,857	726	1,478	337
Massachusetts .....	5,577	6,018	6,206	3,811	6,611	5,258
Michigan .....	2,874	3,708	2,776	2,772	2,282	2,434
Minnesota .....	671	1,139	687	596	621	698
Mississippi .....	11,936	14,015	8,386	4,689	3,034	2,932
Missouri .....	1,220	2,812	1,029	96	175	78
Montana .....	46	116	8	7	15	18
Nebraska .....	370	892	221	110	174	82
Nevada .....	7,832	7,265	5,272	5,220	3,518	3,822
New Hampshire .....	77	12	353	0	0	0
New Jersey .....	4,239	8,152	4,613	1,480	1,869	2,092
New Mexico .....	4,338	4,026	2,923	2,445	2,548	2,769
New York .....	28,874	34,220	27,370	16,444	11,135	14,307
North Carolina .....	747	1,889	811	61	26	1
North Dakota .....	0	1	0	0	0	0
Ohio .....	301	1,065	591	105	106	71
Oklahoma .....	20,598	20,971	12,311	6,747	7,058	6,712
Oregon .....	2,950	357	147	3	0	200
Pennsylvania .....	923	2,725	886	295	326	324
Rhode Island .....	2,424	2,005	2,185	2,447	1,854	2,180
South Carolina .....	422	922	621	67	72	12
South Dakota .....	228	582	360	85	85	39
Tennessee .....	328	844	255	0	0	0
Texas .....	141,938	144,610	103,342	73,272	59,323	60,401
Utah .....	934	709	22	126	123	134
Vermont .....	4	4	3	3	3	3
Virginia .....	1,378	2,371	1,262	626	1,398	1,058
Washington .....	731	25	1	86	5	0
West Virginia .....	9	23	40	33	9	23
Wisconsin .....	899	2,180	1,695	1,861	1,777	2,165
Wyoming .....	3	4	13	6	6	6
<b>Total .....</b>	<b>390,347</b>	<b>426,594</b>	<b>295,112</b>	<b>230,637</b>	<b>192,593</b>	<b>189,131</b>

See footnotes at end of table.



**Table 18. Natural Gas Deliveries to Electric Utility<sup>a</sup> Consumers,  
by State, 1995-1997**  
(Million Cubic Feet) — Continued

State	1997		1996			
	February	January	Total	December	November	October
Alabama .....	156	125	6,146	291	480	384
Alaska .....	2,439	3,220	31,767	3,078	2,683	2,637
Arizona .....	358	319	19,248	443	296	2,242
Arkansas .....	217	626	33,988	1,226	297	201
California .....	14,231	17,524	318,035	17,182	22,900	32,454
Colorado .....	261	398	5,511	454	319	506
Connecticut .....	1,208	192	10,456	131	912	1,643
Delaware .....	2,069	1,746	23,370	1,048	2,129	2,330
District of Columbia .....	0	0	0	0	0	0
Florida .....	17,001	10,485	283,557	13,124	17,908	28,677
Georgia .....	18	42	4,674	43	80	9
Hawaii .....	0	0	0	0	0	0
Idaho .....	0	0	0	0	0	0
Illinois .....	1,679	1,201	25,863	550	1,859	1,046
Indiana .....	137	147	4,330	236	256	144
Iowa .....	231	261	3,491	236	232	211
Kansas .....	409	547	22,607	672	578	808
Kentucky .....	80	111	1,836	82	104	65
Louisiana .....	13,608	14,747	252,139	12,921	14,958	18,877
Maine .....	0	0	0	0	0	0
Maryland .....	47	185	8,455	211	263	485
Massachusetts .....	2,785	1,570	45,037	1,562	3,081	8,648
Michigan .....	2,375	1,916	32,559	2,888	3,151	2,705
Minnesota .....	124	658	5,301	419	403	469
Mississippi .....	2,717	3,207	83,251	3,671	6,561	5,392
Missouri .....	53	86	5,223	69	238	193
Montana .....	27	64	470	72	85	42
Nebraska .....	78	31	2,351	82	94	122
Nevada .....	1,363	1,468	46,766	2,311	2,458	4,266
New Hampshire .....	0	0	3	0	1	0
New Jersey .....	1,023	746	25,825	445	1,038	1,481
New Mexico .....	1,991	2,059	29,969	2,244	2,423	2,787
New York .....	12,117	4,823	142,688	5,108	10,715	14,459
North Carolina .....	9	0	2,381	1	1	112
North Dakota .....	0	0	3	0	0	0
Ohio .....	71	124	2,867	106	259	56
Oklahoma .....	4,867	6,260	136,436	6,107	8,068	9,395
Oregon .....	0	295	14,015	334	1,289	3,049
Pennsylvania .....	316	281	7,239	282	654	650
Rhode Island .....	2,021	2,088	25,071	2,167	2,449	2,424
South Carolina .....	4	11	1,206	20	16	23
South Dakota .....	19	26	725	35	80	5
Tennessee .....	0	0	572	0	1	0
Texas .....	54,897	59,992	1,039,155	51,332	59,062	75,410
Utah .....	118	138	3,428	142	130	133
Vermont .....	2	2	24	3	3	3
Virginia .....	44	178	10,275	333	193	473
Washington .....	2	6	6,590	21	358	801
West Virginia .....	23	12	205	43	3	1
Wisconsin .....	1,782	1,174	7,303	702	803	572
Wyoming .....	7	9	87	6	6	7
<b>Total .....</b>	<b>142,984</b>	<b>139,104</b>	<b>2,732,496</b>	<b>132,434</b>	<b>169,879</b>	<b>226,394</b>

See footnotes at end of table.

**Table 18. Natural Gas Deliveries to Electric Utility<sup>a</sup> Consumers,  
by State, 1995-1997**  
(Million Cubic Feet) — Continued

State	1996					
	September	August	July	June	May	April
Alabama .....	593	708	1,457	931	840	112
Alaska .....	2,449	2,595	2,514	2,611	2,592	2,434
Arizona .....	2,145	4,797	3,286	1,940	1,047	828
Arkansas .....	4,215	5,421	7,029	5,722	4,342	3,663
California .....	35,564	53,941	42,047	23,684	18,648	18,202
Colorado .....	724	798	665	400	584	246
Connecticut .....	2,168	2,269	1,409	951	595	298
Delaware .....	2,562	2,416	2,342	2,724	1,189	1,291
District of Columbia .....	0	0	0	0	0	0
Florida .....	33,595	33,376	29,468	28,311	31,435	21,801
Georgia .....	243	588	1,514	1,010	1,000	61
Hawaii .....	0	0	0	0	0	0
Idaho .....	0	0	0	0	0	0
Illinois .....	2,309	4,289	4,369	4,205	2,562	2,103
Indiana .....	197	570	483	746	506	248
Iowa .....	277	298	355	545	435	289
Kansas .....	1,959	4,148	4,884	4,175	1,661	728
Kentucky .....	83	281	249	235	236	139
Louisiana .....	21,484	32,455	35,959	31,317	26,523	13,556
Maine .....	0	0	0	0	0	0
Maryland .....	1,521	1,920	1,273	1,278	980	220
Massachusetts .....	9,009	7,190	3,508	3,616	2,443	2,108
Michigan .....	3,320	2,746	2,767	3,062	2,613	2,011
Minnesota .....	602	624	690	699	273	342
Mississippi .....	9,812	12,074	10,509	11,998	8,484	4,734
Missouri .....	287	896	1,152	1,011	802	184
Montana .....	35	23	45	52	8	4
Nebraska .....	161	213	348	466	320	202
Nevada .....	4,900	6,394	6,552	4,802	4,271	2,737
New Hampshire .....	0	0	0	0	0	0
New Jersey .....	3,575	4,064	4,441	4,207	1,984	647
New Mexico .....	2,492	3,456	3,480	2,895	3,067	1,997
New York .....	21,421	24,086	18,789	16,773	13,132	5,595
North Carolina .....	75	196	766	802	377	3
North Dakota .....	1	1	0	1	0	0
Ohio .....	257	593	312	477	426	46
Oklahoma .....	13,201	19,557	19,747	17,701	12,313	7,340
Oregon .....	3,801	3,202	2,339	0	0	0
Pennsylvania .....	1,150	1,778	676	591	506	262
Rhode Island .....	2,236	2,417	2,031	2,045	2,011	1,700
South Carolina .....	350	64	239	278	188	9
South Dakota .....	76	178	155	174	2	3
Tennessee .....	79	240	130	78	15	0
Texas .....	90,570	119,967	136,109	114,370	114,229	72,920
Utah .....	554	870	810	227	8	128
Vermont .....	3	2	3	4	0	2
Virginia .....	1,677	1,578	1,704	1,532	860	107
Washington .....	2,251	2,558	451	0	1	0
West Virginia .....	26	15	11	21	9	16
Wisconsin .....	739	1,198	532	772	696	229
Wyoming .....	8	9	4	17	5	5
<b>Total .....</b>	<b>284,758</b>	<b>367,059</b>	<b>357,604</b>	<b>299,454</b>	<b>264,216</b>	<b>169,550</b>

<sup>a</sup> Includes all steam electric utility generating plants with a combined capacity of 50 megawatts or greater.

Notes: Geographic coverage is the 50 States and the District of Columbia. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy.

Source: Form EIA-759, "Monthly Power Plant Report."

**Table 19. Natural Gas Deliveries to All Consumers, by State, 1995-1997**  
(Million Cubic Feet)

State	YTD 1997	YTD 1996	YTD 1995	1997		
				November	October	September
Alabama .....	268,197	265,988	258,273	24,708	21,549	21,022
Alaska .....	131,396	135,349	122,269	12,233	<sup>R</sup> 13,232	8,607
Arizona .....	100,256	92,634	92,851	7,012	6,688	10,653
Arkansas .....	220,287	228,643	215,913	19,875	17,490	16,537
California .....	1,664,039	1,553,412	1,675,605	145,641	140,005	162,598
Colorado .....	NA	235,832	221,619	NA	NA	NA
Connecticut .....	NA	112,569	117,166	11,689	NA	6,648
Delaware .....	42,052	49,766	55,324	3,196	2,089	2,190
District of Columbia .....	28,127	28,907	27,952	2,768	1,452	1,245
Florida .....	NA	448,686	468,870	30,603	36,546	NA
Georgia .....	309,516	332,877	316,900	35,202	23,555	20,015
Hawaii .....	NA	2,452	2,550	NA	209	206
Idaho .....	NA	54,288	51,209	5,520	4,450	<sup>R</sup> 3,482
Illinois .....	932,026	955,242	914,530	111,209	70,501	42,647
Indiana .....	NA	496,356	460,194	53,928	<sup>R</sup> 36,889	27,553
Iowa .....	217,255	226,296	216,477	24,737	17,427	11,718
Kansas .....	231,688	241,887	249,687	24,259	15,375	13,128
Kentucky .....	NA	181,724	168,635	21,323	NA	9,949
Louisiana .....	NA	1,274,550	1,331,740	101,554	109,830	<sup>R</sup> 115,487
Maine .....	5,514	5,121	4,624	692	486	329
Maryland .....	171,511	167,826	167,452	17,537	11,516	9,388
Massachusetts .....	NA	319,091	321,502	30,295	23,065	20,450
Michigan .....	825,586	866,025	808,985	88,328	55,655	41,577
Minnesota .....	294,556	301,144	287,774	36,021	21,273	12,899
Mississippi .....	NA	200,336	222,002	15,869	<sup>R</sup> 14,052	NA
Missouri .....	NA	249,460	235,136	24,676	NA	9,897
Montana .....	46,182	48,105	45,209	5,208	3,676	2,248
Nebraska .....	109,488	112,210	114,053	9,890	6,940	5,122
Nevada .....	117,250	111,428	100,548	8,016	9,342	10,859
New Hampshire .....	NA	16,876	17,548	1,788	1,296	NA
New Jersey .....	523,218	523,318	512,116	50,492	34,826	28,939
New Mexico .....	104,501	99,349	93,844	10,734	7,474	6,667
New York .....	NA	998,590	1,009,107	NA	NA	NA
North Carolina .....	187,512	182,602	174,007	18,008	13,572	12,136
North Dakota .....	30,519	28,111	25,313	3,211	1,875	1,327
Ohio .....	760,694	802,812	753,455	82,692	55,186	36,327
Oklahoma .....	406,008	417,627	417,291	33,546	29,671	33,982
Oregon .....	140,985	142,975	124,866	14,591	13,902	12,559
Pennsylvania .....	571,222	603,595	591,008	62,304	40,177	28,814
Rhode Island .....	73,394	73,679	58,996	7,312	5,307	4,738
South Carolina .....	148,571	130,984	135,203	12,984	10,286	11,464
South Dakota .....	28,607	28,785	27,151	3,059	1,587	1,153
Tennessee .....	248,028	225,997	210,885	33,407	16,202	16,619
Texas .....	NA	3,300,457	3,093,368	275,205	278,498	NA
Utah .....	116,842	113,271	111,950	13,483	10,663	6,362
Vermont .....	7,067	6,481	6,203	724	529	345
Virginia .....	201,762	201,559	207,953	19,761	13,146	11,527
Washington .....	NA	205,448	189,398	NA	NA	NA
West Virginia .....	99,911	102,565	99,902	11,208	7,101	6,025
Wisconsin .....	NA	347,717	322,921	41,412	<sup>R</sup> 26,495	<sup>R</sup> 16,644
Wyoming .....	NA	65,449	63,766	6,583	NA	NA
<b>Total .....</b>	<b>17,817,144</b>	<b>17,916,449</b>	<b>17,521,300</b>	<b>1,729,517</b>	<b><sup>R</sup>1,375,858</b>	<b><sup>R</sup>1,290,987</b>

See footnotes at end of table.

**Table 19. Natural Gas Deliveries to All Consumers, by State, 1995-1997**  
(Million Cubic Feet) — Continued

State	1997					
	August	July	June	May	April	March
Alabama .....	23,524	24,638	20,567	22,424	23,942	24,993
Alaska .....	<sup>R</sup> 10,340	10,334	10,194	10,857	12,458	<sup>R</sup> 14,275
Arizona .....	9,864	9,323	7,232	8,786	7,535	10,047
Arkansas .....	19,380	21,532	17,545	16,464	18,087	20,705
California .....	155,744	154,614	125,563	143,063	143,256	153,477
Colorado .....	15,219	16,390	NA	NA	22,148	NA
Connecticut .....	7,510	7,699	7,173	8,929	12,971	14,438
Delaware .....	2,970	3,508	2,852	3,348	4,766	5,652
District of Columbia .....	1,226	1,202	1,513	2,317	2,158	4,232
Florida .....	48,290	48,608	46,450	45,776	44,267	45,215
Georgia .....	21,341	21,371	19,045	24,082	29,290	30,047
Hawaii .....	201	218	211	207	215	226
Idaho .....	3,021	3,441	3,556	4,298	5,685	6,454
Illinois .....	40,598	46,966	44,672	64,815	89,515	117,123
Indiana .....	26,494	26,823	29,312	39,497	46,637	58,050
Iowa .....	11,655	11,554	11,603	15,115	20,297	25,491
Kansas .....	<sup>R</sup> 15,756	<sup>R</sup> 23,046	<sup>R</sup> 15,127	16,509	19,765	24,630
Kentucky .....	9,434	9,646	9,592	12,569	15,682	19,924
Louisiana .....	121,689	124,542	115,064	112,568	106,030	101,161
Maine .....	294	271	323	434	562	702
Maryland .....	10,095	12,434	11,966	12,410	17,306	20,426
Massachusetts .....	22,736	23,334	28,215	25,382	38,194	42,536
Michigan .....	39,732	26,763	47,778	70,279	87,599	112,016
Minnesota .....	13,520	13,121	14,870	20,092	28,755	38,990
Mississippi .....	19,986	22,094	16,536	13,193	13,006	14,796
Missouri .....	10,016	12,172	11,961	15,127	24,139	28,569
Montana .....	2,129	1,983	2,266	3,230	4,531	5,832
Nebraska .....	<sup>R</sup> 6,830	<sup>R</sup> 8,156	<sup>R</sup> 5,550	8,181	10,771	13,598
Nevada .....	12,429	11,767	10,182	11,097	9,856	12,100
New Hampshire .....	901	811	1,336	1,843	2,115	2,437
New Jersey .....	32,427	35,798	33,919	39,327	50,240	74,025
New Mexico .....	8,135	7,921	6,162	8,286	7,849	11,458
New York .....	75,891	82,575	NA	NA	NA	NA
North Carolina .....	12,972	13,613	13,376	15,141	17,647	19,958
North Dakota .....	1,314	1,006	1,384	2,260	3,140	4,558
Ohio .....	34,138	34,610	38,040	59,663	75,369	98,118
Oklahoma .....	41,364	40,916	33,470	30,560	34,124	38,029
Oregon .....	12,845	9,490	7,800	9,529	11,832	14,351
Pennsylvania .....	26,622	27,689	30,381	44,874	60,020	73,750
Rhode Island .....	4,757	5,075	5,714	6,911	7,506	8,622
South Carolina .....	13,758	<sup>R</sup> 19,536	10,987	11,697	12,486	13,572
South Dakota .....	1,210	1,398	1,503	2,004	2,900	3,604
Tennessee .....	16,625	14,884	15,758	18,028	21,621	26,945
Texas .....	336,130	333,478	288,929	263,312	251,169	283,943
Utah .....	6,712	6,619	5,977	6,848	11,430	13,219
Vermont .....	293	285	354	569	782	1,048
Virginia .....	14,228	14,380	11,860	16,686	20,271	21,555
Washington .....	15,634	13,007	13,977	18,288	16,880	23,019
West Virginia .....	6,001	5,547	6,088	8,410	12,384	9,734
Wisconsin .....	<sup>R</sup> 15,931	<sup>R</sup> 16,868	<sup>R</sup> 16,987	<sup>R</sup> 26,134	<sup>R</sup> 33,711	<sup>R</sup> 46,182
Wyoming .....	4,271	4,475	4,900	6,272	6,374	6,938
<b>Total .....</b>	<sup>R</sup> 1,364,180	<sup>R</sup> 1,387,528	<sup>R</sup> 1,283,000	<sup>R</sup> 1,435,167	<sup>R</sup> 1,623,776	<sup>R</sup> 1,917,088

See footnotes at end of table.

**Table 19. Natural Gas Deliveries to All Consumers, by State, 1995-1997**

(Million Cubic Feet) — Continued

State	1997		1996			
	February	January	Total	December	November	October
Alabama .....	29,657	31,172	293,084	27,094	22,883	21,529
Alaska .....	<sup>R</sup> 13,110	15,754	150,877	15,528	13,584	12,633
Arizona .....	10,920	12,196	103,037	10,289	7,516	7,435
Arkansas .....	24,896	27,778	252,585	23,939	18,699	14,990
California .....	162,782	177,297	1,721,217	166,541	147,022	138,842
Colorado .....	NA	NA	269,006	33,157	22,968	13,807
Connecticut .....	16,123	15,326	126,488	13,888	10,932	8,990
Delaware .....	5,918	5,563	54,020	4,253	4,459	4,236
District of Columbia .....	4,971	5,042	33,644	4,731	2,448	1,382
Florida .....	34,457	29,299	478,471	29,697	33,713	43,317
Georgia .....	40,351	45,217	374,882	42,005	36,037	24,688
Hawaii .....	237	239	2,672	220	200	209
Idaho .....	7,128	7,546	61,058	6,736	5,424	4,267
Illinois .....	132,750	171,230	1,104,972	149,698	121,461	65,883
Indiana .....	64,835	77,926	561,056	64,588	52,504	35,148
Iowa .....	28,952	38,704	260,140	33,840	27,088	15,392
Kansas .....	28,702	35,391	275,508	33,619	24,789	13,341
Kentucky .....	23,491	31,742	207,529	25,797	22,270	12,879
Louisiana .....	104,504	111,538	1,382,966	108,393	NA	NA
Maine .....	643	778	5,722	601	619	478
Maryland .....	23,169	25,264	189,901	22,026	16,766	10,847
Massachusetts .....	NA	NA	355,609	36,513	31,385	28,511
Michigan .....	120,488	135,372	980,555	114,489	91,489	55,831
Minnesota .....	43,574	51,440	348,671	47,484	36,773	21,889
Mississippi .....	17,432	18,819	216,524	16,183	16,579	14,771
Missouri .....	45,769	45,237	286,814	37,323	24,218	12,436
Montana .....	6,646	8,432	55,584	7,466	5,870	3,712
Nebraska .....	<sup>R</sup> 15,841	18,609	128,297	16,087	10,994	8,322
Nevada .....	10,278	11,324	122,449	10,973	9,050	8,977
New Hampshire .....	2,626	2,545	19,031	2,155	1,895	1,144
New Jersey .....	65,637	77,588	599,810	76,491	50,284	33,981
New Mexico .....	13,678	16,137	113,059	13,633	10,437	7,281
New York .....	NA	NA	1,121,742	NA	NA	NA
North Carolina .....	25,811	25,277	205,783	23,182	17,666	14,099
North Dakota .....	5,115	5,328	32,670	4,544	3,497	1,900
Ohio .....	113,372	133,180	915,035	111,994	87,340	54,686
Oklahoma .....	43,527	46,819	460,373	42,614	33,004	30,251
Oregon .....	15,519	18,566	160,626	17,626	15,293	14,369
Pennsylvania .....	84,428	92,163	684,022	80,392	65,415	41,287
Rhode Island .....	8,649	8,803	82,041	8,359	7,830	6,999
South Carolina .....	15,741	16,059	146,434	15,449	12,527	10,815
South Dakota .....	4,506	5,684	33,594	4,805	3,425	1,677
Tennessee .....	34,363	33,577	256,053	30,041	23,454	15,496
Texas .....	270,103	317,196	3,585,201	284,720	261,074	NA
Utah .....	16,656	18,874	129,651	16,258	12,727	10,013
Vermont .....	1,059	1,078	7,325	844	698	440
Virginia .....	27,861	30,486	230,140	28,550	20,832	12,795
Washington .....	24,824	27,478	231,767	26,206	21,913	17,092
West Virginia .....	13,142	14,271	115,622	13,051	10,306	7,541
Wisconsin .....	<sup>R</sup> 48,124	<sup>R</sup> 61,232	398,581	50,811	43,208	25,032
Wyoming .....	6,883	8,992	73,609	8,146	7,382	6,411
<b>Total .....</b>	<sup>R</sup> 2,078,671	<sup>R</sup> 2,331,372	20,005,508	2,086,126	1,731,770	1,377,692

See footnotes at end of table.

**Table 19. Natural Gas Deliveries to All Consumers, by State, 1995-1997**  
(Million Cubic Feet) — Continued

State	1996					
	September	August	July	June	May	April
Alabama .....	19,832	19,033	20,226	19,145	21,871	26,181
Alaska .....	10,943	11,496	10,922	10,983	11,154	12,345
Arizona .....	6,972	9,510	8,156	7,142	6,125	7,844
Arkansas .....	17,185	18,927	20,438	19,320	18,556	22,886
California .....	136,901	155,943	135,936	117,883	123,142	128,773
Colorado .....	11,994	13,252	13,596	13,134	17,609	26,605
Connecticut .....	7,570	7,498	6,777	6,410	7,576	11,010
Delaware .....	4,104	3,910	3,861	4,582	3,277	4,143
District of Columbia .....	1,175	1,130	1,290	1,405	2,040	3,637
Florida .....	48,450	47,884	44,211	42,761	48,319	38,647
Georgia .....	21,145	22,041	21,029	21,094	24,193	31,233
Hawaii .....	213	206	218	221	217	239
Idaho .....	3,588	3,040	3,343	3,718	4,537	5,166
Illinois .....	42,305	39,723	39,693	43,213	64,033	89,998
Indiana .....	26,545	25,587	26,098	50,104	22,111	48,080
Iowa .....	11,602	11,684	11,467	12,874	16,431	21,611
Kansas .....	13,359	19,111	19,640	17,217	15,908	20,931
Kentucky .....	9,256	8,916	8,396	11,114	10,325	16,374
Louisiana .....	112,202	123,596	126,054	124,988	117,827	107,234
Maine .....	291	274	242	297	362	444
Maryland .....	9,705	10,184	9,222	9,721	11,805	16,183
Massachusetts .....	24,573	22,967	17,510	19,087	23,463	30,891
Michigan .....	42,722	39,157	40,199	45,332	67,245	92,332
Minnesota .....	14,156	12,763	13,247	14,978	20,593	29,687
Mississippi .....	18,125	20,243	18,928	20,138	17,489	16,692
Missouri .....	9,811	11,582	10,348	11,539	16,261	26,460
Montana .....	2,549	2,257	2,160	2,521	3,602	4,720
Nebraska .....	5,903	6,101	7,356	6,017	7,619	11,193
Nevada .....	9,476	10,921	11,337	9,821	9,861	8,970
New Hampshire .....	761	742	710	855	1,263	1,793
New Jersey .....	29,492	26,043	31,482	31,189	38,773	53,135
New Mexico .....	6,165	7,418	8,331	8,044	6,718	8,983
New York .....	NA	NA	NA	66,556	NA	NA
North Carolina .....	11,058	10,992	11,307	11,847	13,086	18,978
North Dakota .....	1,219	936	885	1,235	2,081	3,180
Ohio .....	34,327	34,726	34,182	47,450	53,255	80,045
Oklahoma .....	33,379	39,824	39,995	36,075	33,715	34,411
Oregon .....	13,598	12,667	11,471	9,484	10,788	10,848
Pennsylvania .....	29,057	29,652	27,532	31,421	41,429	59,787
Rhode Island .....	6,206	6,308	4,620	5,342	6,111	6,827
South Carolina .....	9,849	9,602	9,559	9,690	10,847	13,344
South Dakota .....	1,171	1,162	1,143	1,480	1,896	2,925
Tennessee .....	13,863	13,130	12,981	13,507	14,359	22,229
Texas .....	292,962	310,564	319,000	307,032	318,667	288,584
Utah .....	7,809	6,534	6,500	5,632	6,981	10,571
Vermont .....	300	273	228	340	498	684
Virginia .....	10,655	12,196	12,514	10,792	14,116	18,035
Washington .....	15,904	15,398	12,847	12,936	16,490	18,363
West Virginia .....	6,489	5,743	5,830	5,606	7,097	10,302
Wisconsin .....	16,019	15,491	13,931	16,828	24,514	34,055
Wyoming .....	4,324	4,322	4,042	4,952	5,627	6,356
<b>Total .....</b>	<b>1,252,627</b>	<b>1,312,337</b>	<b>1,284,757</b>	<b>1,305,052</b>	<b>1,419,753</b>	<b>1,662,615</b>

<sup>R</sup> = Revised Data.

NA = Not Available.

Notes: Geographic coverage is the 50 States and the District of Columbia. Gas volumes delivered for use as vehicle fuel are included in the annual total for commercial deliveries but not in the monthly components. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers" and Form EIA-759, "Monthly Power Plant Report."

**Table 20. Average City Gate Price, by State, 1995-1997**  
(Dollars per Thousand Cubic Feet)

State	YTD 1997	YTD 1996	YTD 1995	1997				
				November	October	September	August	July
Alabama .....	3.88	3.41	2.90	3.97	4.17	3.83	3.88	4.10
Alaska .....	1.81	1.58	1.67	1.82	1.78	1.79	1.73	1.74
Arizona .....	3.27	2.53	2.14	3.48	3.80	3.74	3.16	2.98
Arkansas .....	3.24	2.60	2.29	3.44	3.61	2.87	3.28	2.78
California .....	2.89	2.44	2.04	2.06	3.18	2.74	2.79	3.72
Colorado .....	NA	2.41	2.66	NA	NA	NA	NA	NA
Connecticut .....	NA	4.97	4.71	3.87	NA	5.29	5.33	4.55
Delaware .....	3.98	3.53	2.67	5.73	5.23	1.04	4.07	3.51
District of Columbia .....	—	—	—	—	—	—	—	—
Florida .....	3.99	3.62	2.65	4.45	4.64	3.82	3.31	3.41
Georgia .....	4.06	3.64	2.96	4.04	4.03	5.29	3.90	3.96
Hawaii .....	NA	5.98	5.25	NA	6.09	6.11	6.35	6.59
Idaho .....	NA	2.22	2.22	2.07	2.01	<sup>R</sup> 2.17	2.50	2.16
Illinois .....	3.33	3.15	2.60	3.72	4.07	3.78	3.37	2.81
Indiana .....	NA	2.98	2.84	3.21	NA	3.15	2.87	2.54
Iowa .....	3.99	3.36	2.83	4.84	4.99	5.39	5.86	6.62
Kansas .....	3.45	2.94	2.35	4.29	3.61	3.47	3.11	2.88
Kentucky .....	NA	3.26	2.79	4.28	NA	3.57	3.62	3.68
Louisiana .....	NA	3.00	2.13	3.73	NA	3.01	2.56	2.58
Maine .....	3.95	4.30	3.39	2.72	4.11	3.79	4.43	4.34
Maryland .....	4.18	3.92	2.91	4.22	4.69	5.77	6.05	5.81
Massachusetts .....	3.94	3.87	3.56	4.14	4.52	4.58	<sup>R</sup> 4.91	5.29
Michigan .....	2.97	2.82	2.58	3.51	3.12	2.87	2.63	2.54
Minnesota .....	3.61	2.93	2.50	4.52	4.26	4.02	2.97	3.92
Mississippi .....	NA	3.12	2.41	3.83	NA	NA	NA	NA
Missouri .....	NA	3.10	2.77	3.91	NA	5.08	4.79	4.61
Montana .....	3.35	2.95	3.07	3.15	4.47	3.76	3.96	3.63
Nebraska .....	4.12	2.91	2.52	6.30	5.76	7.03	5.51	4.96
Nevada .....	3.52	2.92	2.82	3.71	3.46	4.12	3.99	3.87
New Hampshire .....	NA	4.09	3.36	4.02	3.95	NA	4.45	4.28
New Jersey .....	4.23	3.72	3.33	4.49	4.74	4.22	4.41	4.29
New Mexico .....	2.57	1.69	1.47	2.85	2.59	2.62	2.18	2.13
New York .....	NA	3.28	2.40	NA	NA	3.42	NA	NA
North Carolina .....	4.00	3.65	2.96	4.09	3.95	4.13	3.96	3.90
North Dakota .....	3.44	2.78	2.58	4.01	3.73	3.53	3.36	3.14
Ohio .....	5.31	4.31	3.92	4.66	5.09	4.91	5.51	7.16
Oklahoma .....	3.10	2.52	2.55	3.19	3.04	2.58	2.66	3.23
Oregon .....	2.61	2.33	2.55	2.73	2.48	3.12	4.01	3.45
Pennsylvania .....	4.12	3.70	3.12	4.32	4.60	4.56	4.36	4.03
Rhode Island .....	4.56	4.30	3.61	4.46	4.53	5.71	6.64	7.53
South Carolina .....	3.83	3.80	3.25	4.13	4.15	4.03	3.86	3.74
South Dakota .....	3.69	3.04	2.92	3.68	3.53	4.03	4.26	4.40
Tennessee .....	NA	3.79	2.65	2.02	4.33	2.78	2.51	2.71
Texas .....	3.61	3.08	2.93	3.86	3.58	3.21	3.11	3.23
Utah .....	2.65	2.23	2.98	3.07	2.64	2.81	3.02	2.83
Vermont .....	2.28	2.75	2.65	2.77	2.34	2.29	2.33	2.41
Virginia .....	4.21	3.71	2.88	4.15	4.83	4.69	4.47	3.94
Washington .....	NA	2.32	2.20	NA	NA	NA	NA	NA
West Virginia .....	3.18	3.34	2.81	3.07	3.66	3.53	3.89	1.85
Wisconsin .....	NA	3.32	2.85	3.75	3.91	4.52	4.75	3.68
Wyoming .....	3.11	2.30	NA	3.61	3.02	2.95	2.90	2.94
<b>Total .....</b>	<b>3.61</b>	<b>3.22</b>	<b>2.77</b>	<b>3.76</b>	<b>3.93</b>	<sup>R</sup> 3.60	<sup>R</sup> 3.45	<b>3.61</b>

See footnotes at end of table.

**Table 20. Average City Gate Price, by State, 1995-1997**

(Dollars per Thousand Cubic Feet) — Continued

State	1997						1996	
	June	May	April	March	February	January	Total	December
Alabama .....	3.86	3.54	3.16	3.20	4.02	4.44	3.48	4.07
Alaska .....	1.70	1.78	<sup>R</sup> 1.81	1.84	1.80	1.88	1.58	1.59
Arizona .....	3.32	3.18	2.61	2.22	2.85	4.21	2.78	4.14
Arkansas .....	2.77	2.59	2.48	2.46	3.16	4.18	2.76	3.68
California .....	2.67	2.55	2.30	2.25	3.21	4.14	2.59	3.81
Colorado .....	NA	NA	2.30	NA	NA	NA	2.70	4.91
Connecticut .....	4.76	4.81	4.94	4.82	6.00	5.82	5.11	6.15
Delaware .....	3.44	3.20	3.00	4.16	5.09	6.92	3.68	4.96
District of Columbia .....	—	—	—	—	—	—	—	—
Florida .....	3.50	3.09	3.62	4.04	4.56	4.61	3.73	4.80
Georgia .....	4.37	3.20	3.08	3.31	4.15	4.80	3.77	4.65
Hawaii .....	5.46	6.47	7.21	6.50	7.73	6.16	6.05	6.67
Idaho .....	2.83	2.98	2.08	1.85	2.13	2.37	2.24	2.30
Illinois .....	3.11	3.06	2.48	2.43	3.30	3.79	3.27	4.05
Indiana .....	2.35	2.32	2.07	2.31	3.20	4.08	3.09	3.83
Iowa .....	4.74	3.49	2.83	3.05	3.66	3.98	3.47	4.09
Kansas .....	3.02	2.85	2.38	2.67	3.67	4.37	3.05	3.77
Kentucky .....	3.69	3.30	3.62	3.40	3.47	4.17	3.41	4.40
Louisiana .....	2.63	2.40	2.36	2.44	3.49	3.84	3.13	4.30
Maine .....	4.53	4.69	3.43	4.26	3.52	4.96	4.30	4.34
Maryland .....	4.34	4.15	3.15	3.32	3.75	4.14	4.02	4.65
Massachusetts .....	5.61	2.86	3.26	2.97	4.12	4.30	3.98	4.82
Michigan .....	2.69	2.60	2.56	2.66	3.28	3.98	2.90	3.73
Minnesota .....	3.49	2.64	2.41	2.70	3.48	4.51	3.07	3.78
Mississippi .....	2.95	2.43	2.89	2.82	3.48	4.25	3.27	4.34
Missouri .....	5.31	3.95	3.11	2.78	3.50	4.05	3.25	4.03
Montana .....	3.91	2.28	3.09	2.70	3.50	3.73	3.03	3.46
Nebraska .....	4.09	3.11	2.28	3.02	3.75	4.42	3.07	3.99
Nevada .....	3.64	2.72	2.81	2.96	3.37	4.13	3.10	3.97
New Hampshire .....	4.34	3.66	3.15	3.99	4.42	4.93	4.20	5.01
New Jersey .....	4.21	3.86	3.15	3.99	4.20	4.70	3.84	4.82
New Mexico .....	2.13	2.04	1.91	1.38	2.39	3.85	1.99	3.60
New York .....	NA	NA	NA	NA	NA	NA	3.36	4.38
North Carolina .....	3.84	3.83	3.40	3.51	4.34	4.36	3.74	4.26
North Dakota .....	3.17	2.95	2.50	2.43	3.59	4.22	2.94	3.80
Ohio .....	6.17	5.96	5.79	5.01	5.41	5.24	4.37	4.79
Oklahoma .....	2.66	2.22	2.22	3.09	3.68	3.52	2.56	2.84
Oregon .....	3.00	3.02	1.95	1.92	2.35	2.95	2.42	2.95
Pennsylvania .....	4.90	4.30	3.48	3.48	4.12	4.22	3.77	4.24
Rhode Island .....	6.42	4.81	3.46	3.16	4.26	4.85	4.41	5.20
South Carolina .....	3.78	3.54	3.25	2.95	3.97	4.20	3.90	4.60
South Dakota .....	4.58	3.75	3.02	2.78	3.95	4.10	3.19	3.98
Tennessee .....	NA	2.96	2.51	NA	3.73	4.10	4.04	6.64
Texas .....	3.01	2.50	2.38	3.01	4.16	4.70	3.22	4.21
Utah .....	2.35	1.93	2.15	2.69	2.76	2.65	2.25	2.39
Vermont .....	2.58	2.77	2.39	2.26	2.16	1.57	2.74	2.67
Virginia .....	3.77	5.12	3.28	3.49	3.96	5.04	3.89	5.13
Washington .....	2.28	2.53	2.70	1.89	2.62	3.45	2.44	3.14
West Virginia .....	3.90	3.02	2.88	2.17	3.54	3.61	3.36	3.53
Wisconsin .....	NA	3.39	NA	2.89	3.54	4.13	3.43	4.12
Wyoming .....	2.85	1.64	2.48	3.19	3.61	4.22	2.36	2.55
<b>Total .....</b>	<b>3.44</b>	<b>3.16</b>	<sup>R</sup> 2.94	<b>3.06</b>	<b>3.78</b>	<b>4.27</b>	<b>3.34</b>	<b>4.18</b>

See footnotes at end of table.



**Table 20. Average City Gate Price, by State, 1995-1997**  
(Dollars per Thousand Cubic Feet) — Continued

State	1996							
	November	October	September	August	July	June	May	April
Alabama .....	3.61	3.44	3.62	4.11	4.04	3.86	3.57	3.27
Alaska .....	1.60	1.55	1.57	1.54	1.54	1.57	1.56	1.58
Arizona .....	3.32	2.66	3.02	3.58	2.94	2.57	2.46	2.05
Arkansas .....	3.04	2.46	2.29	2.59	2.76	2.82	2.59	2.50
California .....	3.00	2.37	2.34	2.77	2.42	2.56	2.14	2.22
Colorado .....	3.13	2.58	2.49	2.29	2.30	2.40	2.50	2.94
Connecticut .....	4.60	4.46	4.65	4.42	4.75	5.03	4.94	5.22
Delaware .....	3.66	2.94	3.03	3.80	4.22	3.44	3.18	3.75
District of Columbia .....	—	—	—	—	—	—	—	—
Florida .....	3.90	3.28	3.03	3.54	3.57	3.31	3.39	3.97
Georgia .....	3.71	3.17	3.31	4.00	4.22	3.68	3.74	3.51
Hawaii .....	6.30	6.33	6.00	6.05	6.34	6.27	6.32	5.74
Idaho .....	2.10	2.11	2.72	2.48	5.26	3.39	2.28	2.21
Illinois .....	3.25	2.65	2.80	3.25	3.69	3.12	2.83	2.93
Indiana .....	3.16	2.49	2.04	2.70	3.30	3.10	2.56	2.90
Iowa .....	3.46	3.12	4.28	7.96	7.45	4.61	4.19	3.13
Kansas .....	3.38	2.91	2.63	2.88	3.24	3.53	3.24	3.24
Kentucky .....	3.59	2.94	3.16	3.04	3.07	3.08	3.83	3.50
Louisiana .....	3.24	2.31	2.26	2.69	3.01	2.72	2.65	3.06
Maine .....	3.64	3.93	3.91	4.35	5.04	5.51	5.61	5.34
Maryland .....	3.75	3.65	5.61	5.85	6.04	5.63	4.35	4.01
Massachusetts .....	3.72	3.60	5.36	5.68	5.53	6.05	4.37	3.97
Michigan .....	3.07	2.49	2.31	2.98	2.87	2.64	2.69	2.80
Minnesota .....	3.19	2.65	2.91	3.32	4.14	2.88	2.82	2.73
Mississippi .....	3.14	2.67	2.59	2.89	3.10	2.90	2.70	3.37
Missouri .....	3.20	3.47	4.14	5.13	4.82	4.51	3.86	3.20
Montana .....	3.04	3.08	3.24	4.13	3.60	3.05	2.81	3.18
Nebraska .....	3.11	2.93	2.85	4.83	3.30	3.50	3.41	3.04
Nevada .....	3.46	2.96	3.26	3.83	3.48	3.36	3.17	2.90
New Hampshire .....	4.15	3.19	3.86	4.47	5.03	4.64	4.17	4.09
New Jersey .....	3.83	3.25	3.69	3.71	3.93	3.88	4.55	3.78
New Mexico .....	2.68	1.88	1.66	2.07	1.60	1.40	1.22	1.18
New York .....	3.03	2.86	2.61	2.91	3.13	3.17	3.18	3.40
North Carolina .....	3.48	3.22	3.68	3.94	3.75	3.75	3.69	3.95
North Dakota .....	3.10	2.49	2.54	3.44	2.90	2.78	2.64	2.62
Ohio .....	4.95	5.06	6.12	5.58	4.53	8.17	4.87	4.06
Oklahoma .....	2.44	1.99	2.53	2.65	2.51	2.40	2.61	2.53
Oregon .....	2.41	2.24	2.98	3.15	3.89	2.11	2.40	2.27
Pennsylvania .....	3.92	3.85	4.39	4.86	5.13	4.62	3.90	4.25
Rhode Island .....	4.04	3.91	5.94	6.51	7.46	6.42	5.06	3.53
South Carolina .....	3.76	3.26	3.53	3.87	4.01	3.49	3.96	3.96
South Dakota .....	3.37	2.87	3.40	6.37	4.74	3.96	2.92	2.63
Tennessee .....	3.71	2.92	3.40	3.70	3.48	3.67	3.72	3.28
Texas .....	3.49	2.73	2.87	2.97	3.04	2.91	2.81	3.13
Utah .....	3.32	1.66	2.22	2.08	2.15	2.12	1.93	1.98
Vermont .....	2.49	2.18	2.36	2.69	3.68	3.01	2.66	3.10
Virginia .....	3.69	3.34	3.40	4.42	4.52	4.93	4.00	3.38
Washington .....	2.50	1.94	2.71	3.21	3.57	3.39	2.30	2.23
West Virginia .....	3.25	3.57	3.74	4.43	3.85	3.49	3.54	3.21
Wisconsin .....	3.61	3.17	4.11	4.98	4.80	5.09	3.43	3.48
Wyoming .....	2.18	1.91	2.84	2.92	2.44	2.40	2.12	2.32
<b>Total</b> .....	3.46	2.94	3.05	3.46	3.49	3.41	3.18	3.22

<sup>R</sup> = Revised Data.

NA = Not Available.

— = Not Applicable.

Notes: Geographic coverage is the 50 States and the District of Columbia. Prices in this table represent the average price of natural gas by State at the point where the gas transferred from a pipeline to a local distribution company within the State. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

**Table 21. Average Price of Natural Gas Delivered to Residential Consumers, by State, 1995-1997**

(Dollars per Thousand Cubic Feet)

State	YTD 1997	YTD 1996	YTD 1995	1997				
				November	October	September	August	July
Alabama .....	8.59	7.20	7.02	7.99	11.10	11.62	11.70	11.26
Alaska .....	3.79	3.44	3.65	3.69	3.70	3.94	4.66	4.43
Arizona .....	7.84	7.64	7.93	9.17	11.33	9.10	10.54	10.05
Arkansas .....	6.72	5.81	5.69	6.40	8.66	9.53	9.25	8.64
California .....	6.75	6.48	6.49	7.49	7.81	7.42	7.57	7.05
Colorado .....	NA	4.47	4.86	NA	NA	NA	NA	NA
Connecticut .....	NA	10.02	10.10	10.42	NA	11.58	11.48	11.35
Delaware .....	8.46	7.05	6.68	8.76	10.81	11.91	11.94	11.69
District of Columbia .....	9.47	9.02	8.18	11.01	11.27	11.34	8.40	8.46
Florida .....	12.73	10.76	9.94	13.89	14.79	14.96	15.05	14.65
Georgia .....	7.74	6.67	6.45	5.95	8.02	10.57	11.75	11.87
Hawaii .....	NA	19.84	17.44	NA	21.04	21.33	21.61	21.17
Idaho .....	NA	5.25	5.63	5.28	5.66	NA	6.51	6.16
Illinois .....	6.04	5.30	4.76	5.65	6.07	8.00	7.87	7.83
Indiana .....	NA	5.52	5.53	5.83	NA	8.77	9.40	10.18
Iowa .....	6.30	5.45	5.14	6.52	7.80	11.19	10.25	9.53
Kansas .....	6.56	5.56	4.88	6.55	7.74	8.54	8.27	7.54
Kentucky .....	NA	5.45	5.18	6.19	NA	7.94	9.22	9.15
Louisiana .....	NA	6.69	5.98	7.96	NA	9.42	8.76	8.41
Maine .....	8.48	7.74	7.38	8.21	7.80	9.46	9.25	9.69
Maryland .....	8.30	7.57	6.70	8.71	9.91	10.72	11.35	10.88
Massachusetts .....	NA	8.79	9.07	9.78	8.58	10.09	10.39	9.86
Michigan .....	5.18	4.94	4.76	5.08	5.74	6.81	7.26	6.88
Minnesota .....	5.88	5.33	4.80	6.12	6.58	7.62	7.17	7.06
Mississippi .....	NA	5.61	5.30	6.70	<sup>R</sup> 8.29	NA	NA	NA
Missouri .....	NA	5.96	5.18	6.68	NA	9.59	9.38	8.77
Montana .....	5.03	4.90	5.20	5.42	5.84	6.73	6.98	7.46
Nebraska .....	5.81	4.79	4.85	6.19	7.53	7.90	7.72	7.43
Nevada .....	6.30	6.27	6.86	6.74	7.67	7.95	7.99	7.58
New Hampshire .....	NA	7.25	7.16	8.87	7.47	NA	9.17	9.01
New Jersey .....	7.91	7.18	7.32	7.63	8.52	9.80	9.82	9.62
New Mexico .....	6.37	4.62	5.33	4.47	8.32	10.84	11.07	11.66
New York .....	NA	8.78	8.54	NA	NA	NA	NA	NA
North Carolina .....	9.20	7.54	7.07	8.23	11.20	13.11	13.15	12.42
North Dakota .....	4.84	4.58	4.73	5.67	6.26	7.54	7.02	7.05
Ohio .....	6.84	5.84	5.56	6.31	7.40	8.29	8.46	8.71
Oklahoma .....	6.49	5.69	5.65	6.17	8.93	9.28	9.36	8.95
Oregon .....	6.15	6.38	6.81	6.15	6.68	7.88	8.12	7.53
Pennsylvania .....	8.42	7.34	7.48	7.94	9.01	11.12	11.50	11.78
Rhode Island .....	9.71	8.47	8.04	9.74	10.64	12.10	12.53	12.30
South Carolina .....	8.74	7.34	7.70	8.00	9.53	10.15	10.24	9.73
South Dakota .....	5.72	5.22	5.09	6.17	6.98	9.10	8.07	8.39
Tennessee .....	NA	6.28	5.68	3.69	8.33	8.81	9.00	8.92
Texas .....	6.55	5.84	6.04	6.50	8.07	8.67	8.91	8.38
Utah .....	5.07	4.42	4.74	5.66	4.62	5.55	5.94	5.61
Vermont .....	6.44	6.42	6.96	6.43	7.06	8.41	8.78	8.51
Virginia .....	8.91	7.85	7.35	9.02	11.07	12.27	12.45	12.40
Washington .....	NA	5.69	5.94	NA	NA	NA	NA	NA
West Virginia .....	7.04	7.05	7.12	6.59	7.81	8.89	9.58	10.39
Wisconsin .....	NA	5.90	5.81	7.24	6.07	<sup>R</sup> 6.92	<sup>R</sup> 6.99	<sup>R</sup> 6.58
Wyoming .....	4.32	4.31	4.85	5.19	5.54	6.09	6.31	5.83
<b>Total .....</b>	<b>6.94</b>	<b>6.33</b>	<b>6.16</b>	<b>6.76</b>	<b>7.54</b>	<b>8.55</b>	<b><sup>R</sup>8.71</b>	<b>8.46</b>

See footnotes at end of table.

**Table 21. Average Price of Natural Gas Delivered to Residential Consumers, by State, 1995-1997**

(Dollars per Thousand Cubic Feet) — Continued

State	1997						1996	
	June	May	April	March	February	January	Total	December
Alabama .....	10.45	8.69	9.21	8.65	7.61	7.62	7.22	7.36
Alaska .....	4.27	3.88	3.75	3.79	3.66	3.63	3.42	3.32
Arizona .....	9.59	8.68	7.93	7.03	6.81	6.62	7.52	6.85
Arkansas .....	8.23	6.93	6.40	6.14	6.09	6.48	5.92	6.64
California .....	7.71	6.38	6.18	6.42	6.27	6.27	6.44	6.20
Colorado .....	NA	NA	3.92	NA	NA	NA	4.39	3.94
Connecticut .....	10.71	10.71	10.07	9.66	10.96	10.41	10.08	10.49
Delaware .....	10.13	8.93	8.25	7.94	7.75	7.54	7.12	7.59
District of Columbia .....	8.28	9.18	8.74	8.57	9.36	9.81	9.19	10.22
Florida .....	14.15	13.36	12.89	12.12	10.69	10.57	10.74	10.47
Georgia .....	12.38	10.42	6.23	8.88	7.47	6.53	6.69	6.75
Hawaii .....	21.51	21.78	21.30	22.29	25.55	21.14	19.81	19.51
Idaho .....	5.81	5.26	5.10	4.95	4.80	4.81	5.20	4.89
Illinois .....	7.93	5.43	5.10	5.28	6.50	6.15	5.28	5.13
Indiana .....	8.85	7.23	6.70	6.28	6.06	5.82	5.54	5.65
Iowa .....	8.08	6.21	5.24	5.58	6.01	5.57	5.49	5.71
Kansas .....	8.03	6.24	6.04	5.98	6.58	6.33	5.59	5.75
Kentucky .....	7.56	6.67	6.84	6.32	6.02	5.87	5.54	6.10
Louisiana .....	8.45	7.52	6.09	6.28	6.85	7.34	6.76	7.30
Maine .....	8.39	7.95	9.05	8.65	8.66	8.10	7.84	8.53
Maryland .....	9.62	8.26	8.14	7.31	7.64	7.68	7.60	7.81
Massachusetts .....	8.32	7.49	9.90	9.70	9.62	NA	8.88	9.53
Michigan .....	6.15	5.10	4.92	4.82	4.94	5.04	4.96	5.07
Minnesota .....	6.36	5.32	4.66	4.81	5.81	6.50	5.46	6.18
Mississippi .....	7.36	6.91	6.42	5.49	5.61	6.17	5.72	6.58
Missouri .....	7.53	5.88	5.31	5.70	6.50	6.67	5.97	6.02
Montana .....	6.10	5.00	4.73	4.69	4.49	4.47	4.86	4.59
Nebraska .....	6.32	4.65	4.91	4.86	5.75	6.21	4.88	5.35
Nevada .....	7.31	6.63	6.16	5.78	5.76	5.54	6.19	5.69
New Hampshire .....	7.59	6.62	6.62	9.36	9.24	9.10	7.40	8.41
New Jersey .....	9.38	8.30	7.71	7.42	7.47	7.67	7.16	7.02
New Mexico .....	40.76	6.53	8.78	4.46	5.09	5.81	4.47	3.72
New York .....	NA	NA	NA	NA	NA	NA	8.90	NA
North Carolina .....	10.31	8.58	8.68	9.59	8.76	8.77	7.59	7.90
North Dakota .....	6.37	5.10	4.10	4.14	4.32	4.43	4.54	4.34
Ohio .....	7.55	6.74	6.60	6.51	6.83	6.72	5.90	6.29
Oklahoma .....	8.14	6.80	5.96	5.66	5.79	6.44	5.64	5.32
Oregon .....	7.21	6.38	6.04	5.85	5.76	5.73	6.31	5.95
Pennsylvania .....	10.15	8.88	8.41	8.05	8.05	7.64	7.38	7.60
Rhode Island .....	10.90	9.70	9.67	9.39	9.18	8.79	8.49	8.68
South Carolina .....	8.96	8.09	8.36	9.24	8.69	8.67	7.41	7.85
South Dakota .....	7.83	5.92	4.95	4.83	5.09	5.50	5.25	5.39
Tennessee .....	NA	6.49	6.39	NA	7.00	6.84	6.26	6.17
Texas .....	7.83	6.42	5.66	5.56	6.05	6.35	5.89	6.14
Utah .....	5.67	5.80	4.16	5.14	4.89	4.91	4.47	4.75
Vermont .....	7.35	6.52	6.23	6.08	6.04	6.04	6.40	6.19
Virginia .....	10.70	9.05	8.12	7.56	8.07	8.87	7.94	8.48
Washington .....	5.82	5.69	5.68	5.48	5.40	5.39	5.65	5.44
West Virginia .....	8.47	7.26	6.91	6.80	6.67	6.68	7.02	6.80
Wisconsin .....	<sup>R</sup> 6.68	<sup>R</sup> 5.13	<sup>R</sup> 6.31	<sup>R</sup> 5.89	<sup>R</sup> 6.61	7.08	6.04	6.87
Wyoming .....	5.25	3.23	4.73	4.01	3.91	3.51	4.26	3.97
<b>Total</b> .....	<sup>R</sup> 8.13	<sup>R</sup> 6.78	6.53	6.49	6.75	6.71	6.34	6.47

See footnotes at end of table.

**Table 21. Average Price of Natural Gas Delivered to Residential Consumers, by State, 1995-1997**

(Dollars per Thousand Cubic Feet) — Continued

State	1996							
	November	October	September	August	July	June	May	April
Alabama .....	7.83	9.71	10.63	10.98	10.77	10.56	8.10	6.89
Alaska .....	3.37	3.46	3.77	3.82	3.87	3.71	3.53	3.40
Arizona .....	7.43	9.28	10.06	10.40	10.02	9.35	8.70	7.59
Arkansas .....	6.05	7.06	7.75	8.30	8.44	7.88	6.75	5.46
California .....	6.41	6.67	5.94	6.85	8.28	6.99	6.39	6.01
Colorado .....	4.31	4.99	6.38	6.74	6.23	5.18	4.49	4.27
Connecticut .....	10.26	10.58	10.65	10.69	10.34	9.94	9.62	10.06
Delaware .....	7.90	9.08	10.58	10.19	10.27	8.92	7.83	6.75
District of Columbia .....	9.18	10.25	10.78	7.82	8.11	9.37	10.22	10.58
Florida .....	11.98	13.01	13.39	13.65	12.96	12.84	11.82	10.31
Georgia .....	5.83	8.51	10.32	10.50	10.98	11.40	10.48	7.33
Hawaii .....	20.71	20.95	20.47	20.50	20.81	20.12	20.44	19.20
Idaho .....	5.22	5.60	6.11	6.47	6.35	5.71	5.39	5.29
Illinois .....	5.05	5.93	8.14	9.26	8.43	8.21	6.76	5.51
Indiana .....	5.52	6.55	8.37	8.68	8.47	7.81	6.50	5.71
Iowa .....	5.30	6.66	9.16	12.66	8.87	7.86	6.18	5.08
Kansas .....	5.47	6.48	7.09	8.27	7.06	7.60	6.74	5.64
Kentucky .....	5.73	6.62	7.85	8.39	8.10	7.50	7.21	5.11
Louisiana .....	7.75	8.31	8.41	8.66	9.30	8.53	8.19	7.01
Maine .....	8.05	7.04	8.23	8.90	8.57	8.06	7.62	8.27
Maryland .....	7.30	8.45	10.11	10.95	10.87	9.91	8.57	7.35
Massachusetts .....	9.52	7.54	9.30	9.56	9.10	7.89	6.06	9.48
Michigan .....	5.01	5.58	6.55	7.32	7.18	6.55	5.20	4.79
Minnesota .....	5.47	5.48	6.67	7.67	7.50	6.71	5.77	5.38
Mississippi .....	6.28	6.35	6.35	6.40	6.47	6.36	6.16	5.64
Missouri .....	5.94	7.58	9.53	10.20	9.53	8.45	6.87	5.71
Montana .....	4.89	5.53	6.18	6.64	6.30	5.29	4.91	4.68
Nebraska .....	5.01	5.59	6.74	7.02	6.76	5.95	5.22	4.68
Nevada .....	6.05	7.40	7.91	8.13	7.66	7.04	6.68	6.22
New Hampshire .....	8.67	7.05	8.26	8.58	8.45	7.29	6.18	5.94
New Jersey .....	7.29	7.66	8.73	8.72	8.96	8.73	7.15	7.34
New Mexico .....	3.80	5.80	8.53	7.36	4.61	4.37	11.89	4.79
New York .....	NA	NA	NA	NA	11.08	10.03	8.80	8.39
North Carolina .....	8.21	9.93	12.45	12.81	11.13	11.48	9.07	7.31
North Dakota .....	3.84	4.66	6.20	7.43	7.25	6.58	5.04	4.59
Ohio .....	6.56	7.29	8.41	8.98	8.10	7.07	6.34	5.39
Oklahoma .....	5.99	8.12	9.14	9.58	9.30	8.54	6.96	5.28
Oregon .....	6.30	7.01	7.85	8.28	7.81	6.99	6.56	6.40
Pennsylvania .....	7.80	8.60	10.61	10.70	10.46	9.10	8.16	7.30
Rhode Island .....	9.36	9.90	11.21	11.29	11.05	9.82	8.39	8.48
South Carolina .....	7.50	8.21	9.27	9.72	9.58	8.85	7.90	6.78
South Dakota .....	5.41	5.94	7.62	11.79	8.33	6.65	5.65	5.21
Tennessee .....	5.93	7.07	8.46	8.77	8.44	8.30	7.25	6.62
Texas .....	5.34	7.07	7.86	8.37	8.00	7.33	6.98	6.13
Utah .....	4.81	3.79	4.15	5.19	4.99	5.40	4.59	3.90
Vermont .....	6.42	7.21	8.41	8.92	8.73	7.49	6.59	6.24
Virginia .....	8.26	9.78	11.94	12.50	12.40	10.73	8.78	7.53
Washington .....	5.60	6.09	6.87	7.32	6.72	6.12	5.74	5.64
West Virginia .....	7.01	7.55	9.22	10.24	9.73	9.17	7.52	6.91
Wisconsin .....	6.25	5.02	6.01	6.73	6.71	6.03	5.58	5.92
Wyoming .....	3.75	3.95	5.29	5.68	5.71	5.02	4.58	4.42
<b>Total .....</b>	<b>6.37</b>	<b>7.05</b>	<b>7.99</b>	<b>8.73</b>	<b>8.64</b>	<b>7.83</b>	<b>6.84</b>	<b>6.27</b>

<sup>R</sup> = Revised Data.

NA = Not Available.

Notes: Data for 1996 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 States and the District of Columbia. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

**Table 22. Average Price of Natural Gas Sold to Commercial Consumers, by State, 1995-1997**

(Dollars per Thousand Cubic Feet)

State	YTD 1997	YTD 1996	YTD 1995	1997				
				November	October	September	August	July
Alabama .....	7.11	6.15	5.85	6.83	7.46	7.59	7.50	7.60
Alaska .....	2.43	2.31	2.25	2.53	<sup>R</sup> 2.52	2.28	<sup>R</sup> 2.09	2.24
Arizona .....	5.30	5.03	5.29	5.83	5.83	5.82	5.34	5.22
Arkansas .....	5.23	4.55	4.13	5.45	5.75	5.54	5.18	5.32
California .....	6.41	5.91	6.13	7.09	6.70	5.88	5.00	5.90
Colorado .....	NA	3.72	4.29	NA	NA	NA	NA	NA
Connecticut .....	NA	7.34	7.42	7.88	NA	6.59	5.22	5.90
Delaware .....	6.80	5.76	5.33	6.97	7.56	7.28	8.64	7.91
District of Columbia .....	8.04	7.27	6.05	8.78	8.08	8.11	7.20	6.92
Florida .....	6.90	6.46	5.30	7.41	7.13	6.94	6.62	6.98
Georgia .....	6.49	5.83	5.29	5.46	5.98	6.28	7.00	7.60
Hawaii .....	NA	14.34	12.96	NA	14.75	14.62	15.09	15.07
Idaho .....	NA	4.60	4.90	4.66	4.73	<sup>R</sup> 4.73	4.83	4.76
Illinois .....	5.48	4.87	4.50	5.28	5.82	6.24	6.10	5.68
Indiana .....	NA	4.62	4.47	4.92	<sup>R</sup> 4.93	6.05	6.07	6.50
Iowa .....	5.23	4.48	4.16	5.53	5.97	7.44	6.44	5.68
Kansas .....	5.72	4.55	3.89	6.00	5.92	5.66	<sup>R</sup> 4.90	<sup>R</sup> 4.95
Kentucky .....	NA	4.98	4.64	6.03	NA	5.90	5.95	6.20
Louisiana .....	NA	6.01	5.06	7.10	7.30	<sup>R</sup> 6.20	5.94	5.39
Maine .....	7.68	6.99	6.52	7.62	6.84	7.61	7.16	7.12
Maryland .....	6.48	6.00	5.03	7.11	7.18	6.89	6.22	6.16
Massachusetts .....	7.21	6.59	6.49	7.74	5.63	5.45	5.53	5.34
Michigan .....	4.94	4.71	4.47	4.95	5.40	5.97	5.96	5.81
Minnesota .....	4.92	4.45	3.93	5.26	5.09	4.99	4.41	4.44
Mississippi .....	NA	5.16	4.23	5.58	<sup>R</sup> 5.98	NA	NA	NA
Missouri .....	NA	5.27	4.32	6.01	NA	5.70	5.19	5.11
Montana .....	4.60	4.67	4.97	3.81	5.39	4.39	5.73	5.62
Nebraska .....	NA	4.33	3.98	5.40	5.26	4.33	<sup>R</sup> 3.76	<sup>R</sup> 3.56
Nevada .....	5.10	4.91	5.46	5.47	5.48	5.22	5.22	5.11
New Hampshire .....	NA	6.60	6.39	7.83	6.15	NA	6.47	6.49
New Jersey .....	6.01	6.12	5.70	5.30	4.91	4.27	4.43	4.32
New Mexico .....	4.63	3.35	3.86	3.90	4.67	5.12	5.35	5.47
New York .....	NA	6.85	6.09	NA	NA	NA	NA	NA
North Carolina .....	6.99	6.09	5.25	6.70	6.18	6.46	6.44	6.44
North Dakota .....	4.26	3.89	3.93	5.11	4.97	5.15	4.51	4.96
Ohio .....	6.37	5.31	4.96	6.05	6.22	6.54	6.82	6.76
Oklahoma .....	5.52	4.66	4.48	5.32	5.54	5.02	4.94	4.93
Oregon .....	4.64	4.87	5.27	4.74	4.66	4.82	4.89	4.76
Pennsylvania .....	7.44	6.39	6.41	6.89	7.26	7.68	7.92	8.12
Rhode Island .....	8.23	7.45	6.33	8.02	8.00	8.77	9.12	8.96
South Carolina .....	6.41	6.16	6.14	6.75	6.10	3.26	6.03	5.90
South Dakota .....	4.65	4.18	4.00	5.22	5.50	6.51	5.22	5.44
Tennessee .....	NA	5.71	5.21	3.34	6.09	6.07	5.81	5.91
Texas .....	4.95	4.14	4.07	5.08	4.76	4.84	4.40	4.51
Utah .....	3.81	3.32	3.60	4.65	3.78	3.99	4.02	3.82
Vermont .....	5.18	5.25	5.48	4.99	4.91	5.01	5.43	5.42
Virginia .....	6.48	5.81	5.11	6.42	6.56	6.60	6.58	6.68
Washington .....	NA	4.82	5.02	NA	NA	NA	NA	NA
West Virginia .....	6.46	6.06	6.09	6.30	7.01	7.63	8.23	8.53
Wisconsin .....	NA	4.68	4.45	6.04	4.88	<sup>R</sup> 4.85	<sup>R</sup> 4.71	<sup>R</sup> 4.30
Wyoming .....	NA	3.77	4.26	4.62	5.02	NA	4.31	4.11
<b>Total .....</b>	<b>5.76</b>	<b>5.35</b>	<b>5.06</b>	<b>5.70</b>	<b>5.72</b>	<b>5.62</b>	<b><sup>R</sup>5.44</b>	<b><sup>R</sup>5.48</b>

See footnotes at end of table.

**Table 22. Average Price of Natural Gas Sold to Commercial Consumers, by State, 1995-1997**

(Dollars per Thousand Cubic Feet) — Continued

State	1997						1996	
	June	May	April	March	February	January	Total	December
Alabama .....	7.22	6.85	7.11	7.26	6.92	6.97	6.19	6.52
Alaska .....	2.15	2.23	2.37	<sup>R</sup> 2.53	<sup>R</sup> 2.52	2.63	2.32	2.39
Arizona .....	5.21	5.19	5.09	5.27	5.11	5.01	5.01	4.99
Arkansas .....	5.37	5.14	4.90	4.86	5.07	5.42	4.68	5.59
California .....	6.32	5.33	6.10	6.71	6.98	7.18	5.94	6.36
Colorado .....	NA	NA	3.29	NA	NA	NA	3.67	3.32
Connecticut .....	6.35	7.00	7.24	7.66	8.45	8.09	7.41	7.90
Delaware .....	7.39	6.82	6.61	6.47	6.54	6.33	5.82	6.19
District of Columbia .....	7.03	6.87	10.06	7.61	7.97	8.24	7.37	8.01
Florida .....	6.93	6.89	6.74	6.96	6.84	6.56	6.45	6.47
Georgia .....	7.68	6.30	5.57	7.53	6.66	6.44	5.89	6.33
Hawaii .....	15.37	15.25	15.34	15.72	15.07	14.72	14.40	15.13
Idaho .....	4.78	4.66	4.62	4.36	4.29	4.30	4.56	4.34
Illinois .....	5.55	4.93	4.64	4.97	5.68	5.89	4.92	5.20
Indiana .....	6.28	6.15	5.97	5.37	5.43	5.14	4.67	4.98
Iowa .....	6.05	4.88	4.34	4.81	5.32	4.96	4.59	5.16
Kansas .....	<sup>R</sup> 4.90	5.25	5.17	5.46	6.25	6.12	4.61	4.90
Kentucky .....	6.00	5.53	5.85	5.72	5.80	5.61	5.09	5.67
Louisiana .....	6.19	6.08	5.08	5.78	6.48	7.08	6.08	6.87
Maine .....	6.94	6.67	8.28	8.10	8.12	7.75	7.09	7.87
Maryland .....	6.52	6.05	5.76	6.11	6.72	6.60	6.07	6.61
Massachusetts .....	5.04	5.44	7.94	8.14	8.28	7.97	6.74	7.91
Michigan .....	5.44	4.82	4.63	4.71	4.80	4.99	4.75	4.97
Minnesota .....	4.50	3.99	3.89	4.16	5.23	6.02	4.63	5.66
Mississippi .....	4.79	5.08	4.93	4.61	5.17	5.61	5.22	5.73
Missouri .....	4.86	4.39	4.55	5.07	6.47	6.58	5.35	5.83
Montana .....	5.39	4.81	4.52	4.57	4.45	4.46	4.64	4.49
Nebraska .....	<sup>R</sup> 5.88	5.00	3.91	4.23	<sup>R</sup> 5.24	5.91	4.47	5.38
Nevada .....	5.07	5.12	5.18	4.95	4.86	4.97	4.90	4.88
New Hampshire .....	6.20	5.86	6.52	8.67	8.81	8.41	6.74	7.75
New Jersey .....	4.38	5.77	5.57	6.99	7.10	6.73	6.14	6.31
New Mexico .....	7.67	4.23	4.63	3.54	4.37	5.36	3.35	3.34
New York .....	NA	NA	NA	NA	NA	NA	6.88	NA
North Carolina .....	5.99	6.02	6.50	7.85	7.67	7.52	6.18	6.78
North Dakota .....	4.54	4.25	3.66	3.65	4.09	4.24	3.91	4.06
Ohio .....	7.39	6.08	6.18	6.03	6.74	6.45	5.38	5.82
Oklahoma .....	5.15	4.97	4.81	5.26	5.75	6.40	4.70	5.04
Oregon .....	4.79	4.62	4.61	4.57	4.55	4.56	4.85	4.65
Pennsylvania .....	8.13	7.99	7.70	7.37	7.55	7.07	6.44	6.86
Rhode Island .....	8.77	8.07	8.46	8.17	8.20	7.88	7.50	7.89
South Carolina .....	5.92	5.92	6.74	7.20	7.54	7.46	6.26	7.01
South Dakota .....	6.09	4.77	4.04	3.96	4.28	4.61	4.20	4.34
Tennessee .....	NA	5.39	5.01	NA	6.19	6.51	5.72	5.78
Texas .....	4.80	4.60	4.29	4.42	5.28	6.00	4.27	5.38
Utah .....	3.60	3.37	3.09	3.81	3.75	3.81	3.38	3.69
Vermont .....	5.41	5.58	5.10	5.15	5.21	5.24	5.24	5.20
Virginia .....	6.10	6.31	6.29	5.93	6.61	6.97	5.93	6.74
Washington .....	4.66	4.83	4.21	4.71	4.72	4.65	4.80	4.76
West Virginia .....	7.78	6.81	6.42	6.22	6.13	6.09	6.03	5.85
Wisconsin .....	<sup>R</sup> 4.74	<sup>R</sup> 3.83	<sup>R</sup> 5.07	<sup>R</sup> 5.03	<sup>R</sup> 5.60	<sup>R</sup> 6.14	4.83	5.73
Wyoming .....	3.93	2.65	3.59	3.46	3.53	3.41	3.68	3.08
<b>Total</b> .....	<sup>R</sup> 5.68	<sup>R</sup> 5.38	<sup>R</sup> 5.45	<sup>R</sup> 5.68	<sup>R</sup> 6.04	6.08	5.40	5.78

See footnotes at end of table.

**Table 22. Average Price of Natural Gas Sold to Commercial Consumers, by State, 1995-1997**

(Dollars per Thousand Cubic Feet) — Continued

State	1996							
	November	October	September	August	July	June	May	April
Alabama .....	6.31	6.60	6.81	6.88	6.82	6.99	6.41	6.08
Alaska .....	2.34	2.23	2.02	2.03	2.15	2.22	2.27	2.40
Arizona .....	5.02	5.16	5.19	5.15	5.10	5.00	4.96	5.01
Arkansas .....	5.02	4.72	4.67	4.86	4.98	5.12	4.85	4.48
California .....	5.49	5.68	5.46	5.25	5.50	5.42	5.55	5.99
Colorado .....	3.41	3.69	3.93	4.03	3.91	3.79	3.64	3.69
Connecticut .....	7.84	6.19	5.95	5.70	5.89	6.48	7.28	7.76
Delaware .....	5.96	6.39	6.45	6.88	6.93	6.82	6.06	5.52
District of Columbia .....	8.02	7.93	7.35	5.87	5.82	6.32	6.28	6.89
Florida .....	6.43	6.41	6.38	6.39	6.45	6.53	6.62	6.61
Georgia .....	5.72	6.08	5.94	5.95	6.57	7.07	7.07	5.96
Hawaii .....	15.31	15.35	14.62	14.94	15.33	14.64	14.41	13.58
Idaho .....	4.63	4.86	4.91	4.92	4.93	4.78	4.78	4.67
Illinois .....	4.83	5.23	6.25	7.66	7.09	6.68	6.19	5.00
Indiana .....	4.66	5.01	5.97	5.87	5.86	5.72	5.30	4.97
Iowa .....	5.09	5.32	5.62	8.72	5.98	5.11	4.45	3.84
Kansas .....	4.56	4.69	5.44	5.98	3.72	4.63	4.73	4.36
Kentucky .....	5.50	5.80	5.95	6.34	5.82	5.62	5.78	4.92
Louisiana .....	6.58	6.15	5.90	6.11	6.63	6.10	6.54	6.40
Maine .....	7.58	6.17	6.55	6.57	7.96	6.44	6.31	7.22
Maryland .....	5.69	5.88	6.27	6.51	6.34	6.34	6.13	5.71
Massachusetts .....	7.30	4.79	4.88	4.87	5.06	4.78	4.30	7.41
Michigan .....	4.85	5.24	5.52	6.09	5.92	5.59	4.78	4.57
Minnesota .....	4.61	3.99	4.26	4.95	4.88	4.66	4.52	4.44
Mississippi .....	4.86	4.31	4.25	4.14	4.32	4.33	12.85	4.84
Missouri .....	5.32	5.36	5.94	6.37	6.02	5.63	5.41	5.14
Montana .....	4.68	5.07	5.27	5.32	5.17	4.75	4.66	4.53
Nebraska .....	4.03	4.93	3.35	4.37	4.16	4.26	5.40	4.34
Nevada .....	4.89	5.13	5.14	5.10	4.92	4.92	4.93	4.90
New Hampshire .....	7.78	5.86	6.14	6.23	6.29	5.91	5.36	5.79
New Jersey .....	5.71	4.61	4.50	4.47	4.78	4.65	5.02	5.46
New Mexico .....	3.20	3.48	4.17	3.37	2.78	2.75	4.23	3.36
New York .....	NA	NA	NA	NA	NA	NA	NA	NA
North Carolina .....	6.67	6.35	6.38	6.37	7.14	5.67	6.24	5.85
North Dakota .....	3.06	3.15	3.77	4.98	6.54	5.55	4.49	4.13
Ohio .....	6.15	6.43	6.67	6.88	6.29	5.95	5.61	5.01
Oklahoma .....	4.80	5.06	5.03	5.12	4.72	4.99	4.97	4.44
Oregon .....	4.82	5.09	5.11	5.09	5.09	4.83	4.81	4.92
Pennsylvania .....	6.61	7.00	7.53	7.26	7.33	7.11	6.85	6.86
Rhode Island .....	7.78	8.23	7.95	7.95	8.11	7.71	7.29	7.55
South Carolina .....	6.37	5.66	5.76	5.74	5.69	5.80	5.87	6.05
South Dakota .....	4.20	4.07	5.15	8.54	5.68	5.55	4.72	4.36
Tennessee .....	5.32	5.50	6.05	6.33	5.91	6.08	5.98	5.97
Texas .....	4.58	4.24	4.33	3.89	3.82	3.81	3.81	3.91
Utah .....	3.80	2.96	3.07	3.32	3.25	3.34	3.01	2.86
Vermont .....	5.11	5.11	5.19	5.44	5.45	5.56	5.38	5.24
Virginia .....	5.94	6.08	6.47	6.65	6.73	6.25	5.17	5.66
Washington .....	4.79	4.88	5.03	5.10	5.16	4.77	4.78	4.80
West Virginia .....	6.26	5.82	6.27	4.85	4.67	8.07	6.83	6.34
Wisconsin .....	4.99	3.72	4.08	4.66	4.72	4.49	4.22	4.80
Wyoming .....	2.60	3.73	4.06	3.90	4.13	4.11	3.98	4.03
<b>Total</b> .....	5.40	5.33	5.46	5.56	5.46	5.43	5.40	5.34

<sup>R</sup> = Revised Data.

NA = Not Available.

Notes: Data for 1996 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 States and the District of Columbia. Average prices for gas delivered to commercial consumers reflect onsystem sales prices only. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy. See Table 24 for data on onsystem sales expressed as a percentage of both total commercial and total industrial deliveries. In 1996, consumption of natural gas for agricultural use is classified as industrial use. In 1995 and earlier years, agricultural use was classified as commercial use. See Explanatory Note 5 for further explanation.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

**Table 23. Average Price of Natural Gas Sold to Industrial Consumers, by State, 1995-1997**

(Dollars per Thousand Cubic Feet)

State	YTD 1997	YTD 1996	YTD 1995	1997				
				November	October	September	August	July
Alabama .....	3.44	3.55	2.94	3.62	3.66	3.21	3.21	3.08
Alaska .....	1.54	1.42	1.45	1.55	1.54	1.57	1.56	1.56
Arizona .....	3.59	3.80	3.73	3.20	3.68	3.26	3.10	3.16
Arkansas .....	3.68	3.17	2.76	4.28	3.87	3.58	3.57	3.42
California .....	4.03	3.67	3.63	4.63	4.28	3.50	3.42	3.79
Colorado .....	NA	0.62	0.67	NA	NA	NA	NA	NA
Connecticut .....	4.71	4.70	4.27	4.96	4.29	4.07	3.86	3.93
Delaware .....	4.29	4.27	2.89	4.69	4.55	4.06	4.07	4.04
District of Columbia .....	—	—	—	—	—	—	—	—
Florida .....	NA	4.18	3.26	5.21	5.02	NA	4.64	4.32
Georgia .....	5.24	4.35	3.53	5.04	4.80	6.43	4.68	4.81
Hawaii .....	—	—	—	—	—	—	—	—
Idaho <sup>a</sup> .....	NA	2.84	3.65	2.74	2.72	<sup>R</sup> 2.69	2.68	2.80
Illinois .....	4.69	4.12	3.61	5.69	4.57	3.83	4.48	4.15
Indiana .....	4.09	3.55	3.39	3.48	3.57	4.07	3.95	3.91
Iowa .....	4.07	3.59	3.29	4.55	4.42	3.90	3.52	4.11
Kansas .....	3.14	2.93	2.19	4.15	4.20	3.44	3.10	3.01
Kentucky .....	NA	3.79	3.23	5.39	NA	3.99	3.87	3.90
Louisiana .....	NA	2.72	1.79	3.52	3.54	NA	2.92	NA
Maine .....	5.40	5.10	4.37	5.88	4.68	4.65	4.43	4.40
Maryland .....	NA	5.51	3.32	5.32	4.36	4.87	4.49	5.38
Massachusetts .....	5.82	5.24	4.37	6.63	4.54	4.19	4.02	4.19
Michigan .....	4.19	3.85	3.62	4.24	4.51	4.16	4.53	4.60
Minnesota .....	3.24	2.83	2.43	3.86	3.80	3.06	2.74	2.58
Mississippi .....	NA	3.33	2.64	4.04	<sup>R</sup> 3.86	NA	NA	NA
Missouri .....	NA	4.18	3.39	5.04	NA	3.89	3.88	3.81
Montana .....	4.86	4.88	4.87	4.88	4.99	4.98	4.98	4.96
Nebraska .....	3.62	3.15	2.77	4.32	3.14	3.48	3.38	3.09
Nevada .....	7.19	4.93	5.38	9.69	11.58	9.23	7.42	7.08
New Hampshire .....	NA	4.64	3.70	NA	4.54	NA	3.46	3.42
New Jersey .....	3.79	3.74	3.05	4.41	3.79	3.31	2.72	3.35
New Mexico .....	3.22	3.05	2.95	2.96	3.56	3.24	3.02	2.92
New York .....	NA	5.02	4.54	5.34	5.03	4.20	NA	NA
North Carolina .....	4.62	4.24	3.46	5.05	4.13	4.30	2.83	4.00
North Dakota .....	3.21	2.82	2.86	3.85	4.07	3.35	3.66	3.14
Ohio .....	5.71	4.30	3.93	5.54	4.99	5.55	5.38	4.42
Oklahoma .....	4.02	3.18	2.24	4.37	4.10	3.44	3.33	3.34
Oregon .....	3.15	3.24	3.43	3.21	3.04	3.03	2.96	3.15
Pennsylvania .....	4.81	4.15	3.95	4.59	4.46	4.21	4.14	5.89
Rhode Island .....	4.29	4.28	4.05	4.59	4.28	4.08	3.66	3.78
South Carolina .....	3.41	3.69	3.06	4.26	3.97	3.23	3.25	<sup>R</sup> 1.89
South Dakota .....	4.06	3.22	3.46	4.36	4.64	4.16	3.96	4.49
Tennessee .....	NA	3.86	3.33	2.00	4.16	3.89	3.44	3.09
Texas .....	NA	2.44	1.66	3.51	3.29	NA	2.34	2.41
Utah .....	2.57	2.09	2.34	2.98	2.81	2.61	2.81	2.70
Vermont .....	3.06	3.47	3.44	3.12	2.97	3.00	2.96	2.97
Virginia .....	3.94	4.10	3.33	3.97	3.44	3.98	3.95	3.82
Washington .....	NA	2.55	2.72	NA	NA	NA	NA	NA
West Virginia .....	2.88	2.75	2.58	2.68	2.89	2.93	2.84	2.91
Wisconsin .....	4.07	3.34	2.89	5.05	<sup>R</sup> 4.19	<sup>R</sup> 3.54	<sup>R</sup> 3.24	<sup>R</sup> 3.20
Wyoming .....	NA	3.13	3.19	3.55	NA	NA	3.34	3.38
<b>Total</b> .....	3.52	3.30	2.59	4.02	<sup>R</sup> 3.66	3.23	2.96	2.96

See footnotes at end of table.



**Table 23. Average Price of Natural Gas Sold to Industrial Consumers, by State, 1995-1997**

(Dollars per Thousand Cubic Feet) — Continued

State	1997						1996	
	June	May	April	March	February	January	Total	December
Alabama .....	3.20	3.19	2.96	3.15	3.91	4.57	3.64	4.61
Alaska .....	1.48	1.44	1.53	1.55	1.57	1.55	1.41	1.35
Arizona .....	3.90	3.90	4.31	4.06	3.74	4.32	3.80	3.81
Arkansas .....	3.37	3.17	3.19	3.31	3.78	4.45	3.28	4.33
California .....	4.00	2.51	3.45	4.24	5.32	5.49	3.77	4.40
Colorado .....	NA	NA	2.17	NA	NA	NA	2.91	1.01
Connecticut .....	4.02	4.22	4.46	4.91	5.76	6.11	4.80	5.81
Delaware .....	3.99	3.62	3.62	4.35	5.03	5.29	4.32	5.00
District of Columbia .....	—	—	—	—	—	—	—	—
Florida .....	4.40	4.34	4.41	4.42	4.68	4.69	4.21	4.52
Georgia .....	6.14	4.67	4.39	5.07	5.63	6.40	4.40	4.87
Hawaii .....	—	—	—	—	—	—	—	—
Idaho <sup>a</sup> .....	2.52	2.73	2.75	2.75	2.76	2.78	2.78	2.42
Illinois .....	3.16	3.00	4.10	4.80	5.86	6.49	4.12	4.15
Indiana .....	4.38	4.50	4.67	4.41	4.21	4.19	3.62	4.16
Iowa .....	3.37	3.96	3.14	4.04	4.73	3.94	3.63	3.96
Kansas .....	3.03	2.57	2.32	2.34	3.45	4.33	3.09	4.85
Kentucky .....	3.61	3.73	3.82	3.97	4.67	4.78	3.87	4.64
Louisiana .....	3.14	2.85	2.78	2.69	3.49	4.19	2.84	4.07
Maine .....	4.45	4.10	5.77	7.08	7.10	6.95	5.22	6.60
Maryland .....	4.67	4.71	20.15	5.67	NA	5.31	5.36	4.63
Massachusetts .....	3.73	4.63	6.35	7.12	8.35	7.05	5.37	6.98
Michigan .....	4.41	4.24	4.12	4.15	4.02	4.16	3.87	4.06
Minnesota .....	2.72	2.67	2.58	2.74	3.73	4.69	2.97	4.18
Mississippi .....	3.21	3.06	2.98	2.93	3.80	4.45	3.43	4.47
Missouri .....	3.81	3.45	3.78	4.48	5.94	5.35	4.35	4.84
Montana .....	4.88	4.85	4.84	4.84	4.80	4.79	4.88	4.87
Nebraska .....	3.02	2.77	2.66	3.19	4.14	5.13	3.29	4.30
Nevada .....	7.50	7.77	5.80	4.67	4.64	9.50	4.90	4.67
New Hampshire .....	3.62	3.12	4.02	6.10	7.97	7.94	4.79	6.84
New Jersey .....	3.32	3.09	2.87	4.82	5.03	4.92	3.82	4.62
New Mexico .....	3.71	2.96	5.10	3.40	4.02	3.01	2.90	2.63
New York .....	NA	NA	NA	NA	NA	NA	5.04	5.17
North Carolina .....	3.64	4.01	4.14	4.80	5.41	5.63	4.37	5.14
North Dakota .....	3.02	2.42	2.37	1.60	4.94	4.39	3.02	3.89
Ohio .....	6.96	4.50	5.96	5.49	6.71	5.77	4.10	2.79
Oklahoma .....	3.32	2.75	3.08	3.90	4.53	5.41	3.26	3.87
Oregon .....	3.10	3.15	3.16	3.25	3.24	3.25	3.24	3.29
Pennsylvania .....	4.70	4.48	4.73	4.91	5.25	5.25	4.12	3.87
Rhode Island .....	3.74	4.72	3.56	4.50	5.52	5.64	4.67	9.64
South Carolina .....	3.32	3.26	3.21	3.43	4.22	4.74	3.77	4.58
South Dakota .....	4.08	3.55	3.12	3.00	4.00	4.99	3.50	6.16
Tennessee .....	NA	3.19	3.40	NA	4.75	4.80	3.92	4.52
Texas .....	2.46	2.31	2.03	2.08	3.19	4.10	2.58	3.82
Utah .....	2.27	2.27	2.31	2.53	2.53	2.44	2.10	2.28
Vermont .....	3.01	3.05	2.98	3.10	3.14	3.32	3.44	3.18
Virginia .....	3.88	4.03	3.11	4.79	5.51	3.56	4.07	3.91
Washington .....	2.81	2.94	2.75	2.88	3.58	4.36	2.67	3.81
West Virginia .....	2.72	2.81	2.49	2.78	3.03	3.44	2.76	2.96
Wisconsin .....	<sup>R</sup> 3.28	<sup>R</sup> 2.98	<sup>R</sup> 3.89	<sup>R</sup> 3.55	<sup>R</sup> 4.41	<sup>R</sup> 5.06	3.48	4.79
Wyoming .....	3.35	3.24	3.40	3.40	3.41	3.40	3.14	3.25
<b>Total</b> .....	3.10	2.95	<sup>R</sup> 3.02	3.39	<sup>R</sup> 4.20	<sup>R</sup> 4.61	3.42	4.20

See footnotes at end of table.

**Table 23. Average Price of Natural Gas Sold to Industrial Consumers, by State, 1995-1997**

(Dollars per Thousand Cubic Feet) — Continued

State	1996							
	November	October	September	August	July	June	May	April
Alabama .....	3.72	3.14	2.94	3.50	3.52	3.36	3.30	3.67
Alaska .....	1.35	1.35	1.35	1.45	1.45	1.45	1.45	1.45
Arizona .....	3.80	3.78	3.76	3.68	3.58	3.84	3.84	3.84
Arkansas .....	3.72	3.00	3.07	3.09	3.18	3.06	3.06	3.07
California .....	4.01	3.32	3.57	3.55	3.63	3.37	3.28	3.60
Colorado .....	0.94	2.13	0.46	0.27	0.24	1.89	1.94	0.68
Connecticut .....	4.95	4.00	3.98	3.83	4.01	4.06	4.21	4.69
Delaware .....	4.62	4.62	4.58	4.71	4.67	4.29	4.79	3.99
District of Columbia .....	—	—	—	—	—	—	—	—
Florida .....	4.29	3.96	3.87	4.08	4.12	4.14	4.08	4.51
Georgia .....	3.76	4.16	2.73	4.08	6.69	5.42	4.47	4.10
Hawaii .....	—	—	—	—	—	—	—	—
Idaho <sup>a</sup> .....	2.51	2.76	2.75	2.74	2.92	2.79	2.84	2.76
Illinois .....	4.09	4.17	5.04	4.98	4.81	5.34	4.55	3.25
Indiana .....	3.52	3.52	3.91	3.99	3.70	3.91	4.05	3.70
Iowa .....	3.82	3.46	3.95	3.57	4.43	4.28	3.57	3.10
Kansas .....	3.37	2.44	3.04	3.21	2.67	2.00	2.62	2.17
Kentucky .....	3.92	3.73	3.65	3.97	3.74	3.63	3.78	3.73
Louisiana .....	3.05	2.22	2.08	2.36	2.84	2.71	2.56	2.85
Maine .....	6.56	4.04	3.96	3.96	4.15	3.95	5.04	6.17
Maryland .....	6.00	7.80	6.18	7.39	6.35	6.08	6.06	5.39
Massachusetts .....	5.52	4.15	3.75	3.71	3.98	3.74	4.44	5.81
Michigan .....	3.97	3.74	3.30	3.47	3.51	3.49	3.62	3.79
Minnesota .....	3.09	2.12	2.35	2.99	2.91	2.65	2.67	3.34
Mississippi .....	3.59	2.87	2.85	3.20	3.43	3.23	3.14	3.47
Missouri .....	4.02	3.75	4.12	4.27	4.23	3.88	3.26	4.20
Montana .....	4.95	5.02	5.04	5.16	5.09	5.01	4.65	4.84
Nebraska .....	3.62	2.71	2.86	3.42	3.19	3.09	2.92	3.13
Nevada .....	4.68	5.01	5.10	5.15	4.80	4.86	4.90	4.91
New Hampshire .....	5.13	7.64	3.48	3.34	3.46	3.38	3.44	4.21
New Jersey .....	3.70	3.05	3.01	3.29	3.17	3.28	3.31	4.12
New Mexico .....	2.78	2.98	3.57	3.44	2.89	2.69	3.31	3.17
New York .....	4.79	4.45	4.16	4.66	4.73	4.63	4.91	5.40
North Carolina .....	4.65	4.05	4.03	3.82	3.87	3.64	3.84	3.90
North Dakota .....	2.36	2.28	2.77	2.99	3.34	3.01	3.16	3.28
Ohio .....	5.14	4.84	4.51	4.75	4.96	4.06	4.22	4.26
Oklahoma .....	3.33	3.28	3.57	3.30	3.36	3.41	3.01	2.99
Oregon .....	3.36	3.52	3.17	3.21	3.30	3.23	3.18	3.12
Pennsylvania .....	4.15	3.97	3.94	3.90	3.72	3.79	3.90	4.09
Rhode Island .....	4.62	3.70	3.84	3.82	4.30	3.89	4.11	4.46
South Carolina .....	4.03	3.29	3.30	3.43	3.54	3.37	3.41	3.79
South Dakota .....	4.81	4.73	5.36	5.26	4.81	5.44	4.63	4.55
Tennessee .....	3.95	3.52	3.80	4.11	3.81	3.57	3.81	4.02
Texas .....	2.89	2.06	2.11	2.53	2.66	2.46	2.39	2.49
Utah .....	2.22	1.97	2.00	2.03	1.97	2.02	2.06	2.08
Vermont .....	3.20	3.44	3.17	3.31	3.37	3.55	3.74	3.75
Virginia .....	3.53	4.14	4.10	4.32	4.45	3.77	3.58	4.82
Washington .....	2.78	2.52	1.93	3.84	2.36	2.79	2.48	2.47
West Virginia .....	3.06	2.70	2.78	2.41	2.61	2.72	2.66	2.87
Wisconsin .....	4.10	2.67	2.74	3.05	3.26	3.08	3.02	3.47
Wyoming .....	3.32	3.29	3.19	3.15	3.10	2.97	3.28	3.22
<b>Total</b> .....	<b>3.57</b>	<b>2.89</b>	<b>2.77</b>	<b>3.05</b>	<b>3.17</b>	<b>3.13</b>	<b>3.14</b>	<b>3.42</b>

<sup>R</sup> = Revised Data.

NA = Not Available.

— = Not Applicable.

Notes: Data for 1996 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 States and the District of Columbia. Average prices for gas delivered to industrial consumers reflect onsystem sales prices only. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy. See Table 24 for data on onsystem sales expressed as a percentage of both total commercial and total industrial deliveries. In 1996, consumption of natural gas for agricultural use is classified as industrial use. In 1995 and earlier years, agricultural use was classified as commercial use. See Explanatory Note 5 for further explanation.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

**Table 24. Average Price of Natural Gas Delivered to Electric Utility<sup>a</sup> Consumers,  
by State, 1996-1997**  
(Dollars per Thousand Cubic Feet)

State	YTD 1997	YTD 1996	YTD 1995	1997				
				October	September	August	July	June
Alabama .....	2.73	2.72	1.88	3.75	2.88	2.56	2.51	2.65
Alaska .....	1.72	1.42	1.30	1.85	1.88	1.69	1.87	1.79
Arizona .....	2.98	2.91	1.75	3.11	3.37	2.63	2.20	3.03
Arkansas .....	2.59	2.45	1.71	3.12	2.89	2.64	2.38	2.40
California .....	3.04	2.58	2.26	3.40	3.14	2.81	2.69	2.75
Colorado .....	3.18	1.89	1.74	2.37	2.42	2.77	4.07	2.31
Connecticut .....	2.46	2.68	2.01	2.76	2.37	2.35	2.33	2.26
Delaware .....	3.12	3.17	2.19	5.69	3.40	3.00	2.83	1.95
District of Columbia .....	—	—	—	—	—	—	—	—
Florida .....	2.50	3.02	2.19	3.21	3.03	2.50	2.30	2.33
Georgia .....	2.73	2.99	2.82	3.94	3.07	2.27	2.75	3.13
Hawaii .....	—	—	—	—	—	—	—	—
Idaho .....	—	—	—	—	—	—	—	—
Illinois .....	2.46	2.56	1.60	3.13	2.82	2.39	2.31	2.37
Indiana .....	3.22	3.32	2.39	5.25	3.67	3.39	2.77	2.99
Iowa .....	3.23	3.07	2.62	3.81	3.28	3.12	2.70	3.28
Kansas .....	2.34	2.19	1.55	3.05	2.70	2.13	2.06	2.11
Kentucky .....	3.24	3.38	2.90	4.00	3.25	2.92	2.87	2.96
Louisiana .....	2.75	2.84	1.82	3.40	3.03	2.60	2.44	2.65
Maine .....	—	—	—	—	—	—	—	—
Maryland .....	2.92	3.04	2.23	3.91	3.42	2.89	2.35	2.69
Massachusetts .....	3.02	2.95	1.97	4.08	3.21	2.87	2.81	2.92
Michigan .....	0.79	0.76	0.75	1.59	0.73	0.58	0.96	0.84
Minnesota .....	2.50	2.20	1.73	3.67	3.56	2.43	2.43	2.34
Mississippi .....	2.70	2.86	1.72	3.35	3.02	2.61	2.46	2.52
Missouri .....	2.63	2.52	1.66	3.35	2.94	2.51	2.39	2.44
Montana .....	7.88	5.77	4.32	2.98	64.31	1.92	1.37	9.35
Nebraska .....	2.50	1.94	1.64	3.21	2.98	2.49	2.32	2.00
Nevada .....	2.14	2.09	1.67	2.64	2.39	2.02	1.98	2.09
New Hampshire .....	2.71	—	1.85	—	2.85	2.55	2.74	2.72
New Jersey .....	3.01	2.92	2.08	4.23	3.42	2.87	2.80	2.85
New Mexico .....	2.61	2.11	1.53	3.05	2.82	2.47	2.46	2.38
New York .....	2.79	2.84	2.06	3.39	2.89	2.60	2.58	2.65
North Carolina .....	3.15	3.09	2.39	3.68	3.38	3.09	3.12	2.87
North Dakota .....	3.81	3.06	3.74	—	—	—	4.00	—
Ohio .....	3.60	3.14	2.28	4.00	4.35	4.28	3.10	3.20
Oklahoma .....	2.90	2.88	2.29	3.46	3.20	2.48	2.37	2.63
Oregon .....	1.49	1.30	1.23	1.45	1.49	1.49	1.35	1.57
Pennsylvania .....	2.82	2.82	2.02	3.65	2.99	2.81	2.54	3.04
Rhode Island .....	3.28	2.18	1.94	4.02	3.32	3.04	2.98	3.21
South Carolina .....	4.15	4.11	1.65	4.10	4.54	4.54	4.35	3.51
South Dakota .....	—	2.36	1.49	—	—	—	—	—
Tennessee .....	—	1.20	0.79	—	—	—	—	—
Texas .....	2.64	2.42	1.89	3.15	2.85	2.50	2.39	2.46
Utah .....	2.11	2.74	2.30	2.00	2.66	1.79	1.86	4.82
Vermont .....	3.17	3.01	1.97	3.96	—	2.90	2.95	—
Virginia .....	2.99	3.01	2.68	4.73	3.77	2.95	2.58	2.93
Washington .....	5.56	4.64	4.40	4.21	8.62	0.67	4.83	3.83
West Virginia .....	3.91	3.53	3.50	3.29	3.41	3.71	3.79	3.23
Wisconsin .....	3.01	2.79	2.09	3.94	3.09	2.85	3.12	2.81
Wyoming .....	12.40	10.92	7.31	4.88	7.74	34.13	20.44	4.00
<b>Total .....</b>	<b>2.70</b>	<b>2.59</b>	<b>1.97</b>	<b>3.23</b>	<b>2.96</b>	<b>2.54</b>	<b>2.44</b>	<b>2.52</b>

See footnotes at end of table.

**Table 24. Average Price of Natural Gas Delivered to Electric Utility<sup>a</sup> Consumers, by State, 1996-1997**  
(Dollars per Thousand Cubic Feet) — Continued

State	1997					1996		
	May	April	March	February	January	Total	December	November
Alabama .....	2.44	3.21	2.12	2.04	4.37	2.95	4.32	3.16
Alaska .....	1.64	1.63	1.55	1.69	1.68	1.45	1.64	1.63
Arizona .....	3.11	4.47	2.85	4.01	5.70	3.03	7.53	4.76
Arkansas .....	1.92	1.98	1.60	1.92	4.18	2.52	3.88	2.62
California .....	2.60	2.63	3.04	4.14	4.67	2.75	4.55	3.40
Colorado .....	6.20	2.47	2.26	3.32	3.76	2.09	4.30	2.93
Connecticut .....	2.22	2.22	2.45	3.08	3.97	2.76	4.97	3.26
Delaware .....	3.68	2.53	2.61	2.90	4.87	3.13	4.06	3.65
District of Columbia .....	—	—	—	—	—	—	—	—
Florida .....	2.09	2.26	2.05	2.13	4.60	3.12	4.75	3.38
Georgia .....	2.64	2.64	3.34	8.15	2.08	2.88	6.28	2.50
Hawaii .....	—	—	—	—	—	—	—	—
Idaho .....	—	—	—	—	—	—	—	—
Illinois .....	2.29	2.12	2.00	2.93	3.34	2.62	3.82	3.10
Indiana .....	3.06	2.88	2.74	3.74	5.04	3.48	4.80	3.86
Iowa .....	2.89	2.79	2.73	3.74	5.11	3.23	3.77	3.45
Kansas .....	2.14	2.00	1.80	2.92	4.56	2.25	4.10	2.62
Kentucky .....	2.83	3.13	3.20	3.69	4.85	3.49	4.64	3.51
Louisiana .....	2.45	2.18	2.10	2.93	4.35	2.94	4.37	3.12
Maine .....	—	—	—	—	—	—	—	—
Maryland .....	2.98	3.14	4.18	5.75	5.04	3.11	5.92	4.02
Massachusetts .....	2.84	2.54	2.64	3.29	5.37	3.07	4.85	3.85
Michigan .....	0.42	0.61	0.69	0.59	0.56	0.74	0.55	0.73
Minnesota .....	2.30	2.34	2.17	3.35	2.26	2.18	2.32	2.19
Mississippi .....	2.37	2.27	2.08	2.61	4.15	2.78	4.27	3.23
Missouri .....	2.74	2.77	2.26	4.62	5.41	2.58	4.90	2.61
Montana .....	13.57	2.87	4.08	9.68	3.54	2.89	1.81	1.66
Nebraska .....	1.89	1.89	2.29	3.20	3.22	2.07	4.37	2.85
Nevada .....	1.99	2.02	2.05	2.33	2.14	2.12	2.19	2.37
New Hampshire .....	2.68	—	—	—	—	—	—	—
New Jersey .....	2.76	2.69	2.57	3.60	4.65	2.96	4.39	3.16
New Mexico .....	2.39	2.07	2.01	2.85	4.07	2.31	3.80	2.94
New York .....	2.62	2.53	2.56	3.35	4.36	2.96	4.22	3.39
North Carolina .....	2.64	2.79	—	—	6.89	3.11	4.41	4.20
North Dakota .....	4.14	3.98	2.93	—	—	2.93	2.81	3.92
Ohio .....	4.13	4.06	4.03	4.16	3.87	3.44	4.27	3.92
Oklahoma .....	2.91	2.57	2.88	4.36	4.21	2.98	4.43	3.61
Oregon .....	—	—	1.40	—	1.96	1.33	2.01	1.42
Pennsylvania .....	2.57	2.31	2.72	2.91	4.65	2.85	4.57	3.31
Rhode Island .....	3.09	2.82	2.90	4.09	3.18	2.29	3.14	2.34
South Carolina .....	3.84	3.87	2.84	4.22	6.95	4.56	5.08	4.47
South Dakota .....	—	—	—	—	—	2.36	—	—
Tennessee .....	—	—	—	—	—	2.61	—	1.20
Texas .....	2.34	2.14	2.12	2.85	3.89	2.51	3.80	2.82
Utah .....	—	—	—	—	—	1.83	—	—
Vermont .....	2.83	2.27	2.61	3.60	5.05	3.22	4.42	3.37
Virginia .....	3.05	2.71	2.76	1.80	3.13	2.98	3.42	2.04
Washington .....	7.21	5.93	65.04	4.50	5.11	4.98	4.75	5.03
West Virginia .....	3.22	3.63	3.82	7.68	3.15	2.99	2.94	2.87
Wisconsin .....	2.58	2.46	2.33	3.42	4.74	3.04	4.29	3.48
Wyoming .....	11.82	24.02	22.85	2.47	13.99	12.59	26.41	17.57
<b>Total .....</b>	<b>2.41</b>	<b>2.30</b>	<b>2.30</b>	<b>2.98</b>	<b>4.04</b>	<b>2.69</b>	<b>3.98</b>	<b>3.04</b>

See footnotes at end of table.

**Table 24. Average Price of Natural Gas Delivered to Electric Utility<sup>a</sup> Consumers, by State, 1996-1997**

(Dollars per Thousand Cubic Feet) — Continued

State	1996							
	October	September	August	July	June	May	April	March
Alabama .....	2.27	2.14	2.66	3.04	2.71	2.59	3.10	3.29
Alaska .....	1.73	1.71	1.66	1.58	1.47	1.04	1.16	1.30
Arizona .....	2.53	2.98	2.61	3.09	3.33	4.43	2.30	2.31
Arkansas .....	1.36	1.89	2.47	2.57	2.40	2.30	2.54	2.71
California .....	2.60	2.51	2.63	2.32	2.41	2.59	2.49	2.83
Colorado .....	2.47	1.54	1.72	2.32	1.52	1.85	2.06	1.79
Connecticut .....	2.78	2.30	2.78	3.01	2.69	2.62	2.79	—
Delaware .....	2.32	2.32	2.35	3.39	3.01	3.19	4.14	2.89
District of Columbia .....	—	—	—	—	—	—	—	—
Florida .....	2.56	2.59	2.99	3.28	3.09	2.91	3.18	3.50
Georgia .....	3.08	2.72	2.51	2.23	3.25	3.80	5.05	5.18
Hawaii .....	—	—	—	—	—	—	—	—
Idaho .....	—	—	—	—	—	—	—	—
Illinois .....	2.12	1.98	2.25	2.70	2.60	2.43	3.03	3.12
Indiana .....	3.38	2.99	2.95	3.14	3.32	3.21	3.40	3.85
Iowa .....	2.95	1.80	2.87	2.83	2.55	2.64	3.82	5.45
Kansas .....	1.88	1.81	2.35	2.19	2.16	2.13	2.45	2.18
Kentucky .....	2.82	2.59	3.05	3.36	3.15	3.78	3.40	3.72
Louisiana .....	2.25	2.16	2.64	2.96	2.72	2.63	2.99	3.25
Maine .....	—	—	—	—	—	—	—	—
Maryland .....	2.65	2.85	2.49	3.25	3.12	3.13	3.97	5.72
Massachusetts .....	2.69	2.33	2.71	3.37	3.03	3.08	3.62	4.17
Michigan .....	0.55	0.59	0.91	0.73	0.88	0.90	0.71	0.83
Minnesota .....	2.14	2.14	2.10	2.14	2.09	2.36	2.63	2.43
Mississippi .....	2.10	2.00	2.52	2.85	2.64	2.49	2.95	3.50
Missouri .....	2.38	2.24	2.41	2.63	2.50	2.42	2.20	3.37
Montana .....	0.65	6.59	6.79	3.49	4.69	5.95	8.98	20.05
Nebraska .....	1.85	1.81	2.16	2.27	1.74	1.58	1.94	2.39
Nevada .....	2.71	1.96	2.20	1.83	2.06	1.90	2.08	2.14
New Hampshire .....	—	—	—	—	—	—	—	—
New Jersey .....	2.36	2.42	2.79	3.15	3.14	3.37	3.50	3.67
New Mexico .....	2.17	1.94	2.33	2.01	1.99	2.04	2.17	2.23
New York .....	2.37	2.26	2.74	3.06	2.89	2.80	3.35	3.72
North Carolina .....	2.55	2.80	3.31	3.51	2.93	2.66	3.23	—
North Dakota .....	2.94	—	3.32	2.71	2.81	2.91	—	—
Ohio .....	2.96	2.80	2.70	3.18	3.51	2.99	3.48	3.74
Oklahoma .....	2.93	2.38	2.64	2.70	2.72	2.95	3.15	3.35
Oregon .....	1.42	1.27	1.24	1.25	—	—	—	—
Pennsylvania .....	2.70	1.67	2.63	3.52	2.74	3.38	2.64	3.61
Rhode Island .....	1.81	1.78	2.32	2.27	2.13	2.10	2.36	2.37
South Carolina .....	5.32	4.01	4.67	3.94	3.69	4.75	4.44	4.72
South Dakota .....	—	—	—	2.36	—	—	—	—
Tennessee .....	—	—	—	—	—	—	—	—
Texas .....	2.23	2.10	2.45	2.63	2.46	2.35	2.48	2.35
Utah .....	—	1.50	1.67	1.57	2.39	—	—	—
Vermont .....	2.68	2.70	3.15	3.45	3.17	—	2.72	—
Virginia .....	3.77	2.93	2.83	3.36	3.14	3.61	1.51	3.09
Washington .....	4.35	4.01	4.98	6.14	5.52	4.05	4.22	5.51
West Virginia .....	3.69	—	3.28	3.35	3.31	2.82	3.00	2.70
Wisconsin .....	2.55	2.38	2.87	2.97	2.56	2.71	3.01	4.19
Wyoming .....	17.64	3.19	7.72	3.19	6.99	3.44	30.24	18.59
<b>Total .....</b>	<b>2.37</b>	<b>2.24</b>	<b>2.57</b>	<b>2.69</b>	<b>2.59</b>	<b>2.52</b>	<b>2.68</b>	<b>2.73</b>

<sup>a</sup> Includes all steam electric utility generating plants with a combined capacity of 50 megawatts or greater.

— = Not Applicable.

Notes: Data for 1996 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 States and the District of Columbia. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy.

Sources: Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants," and Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

**Table 25. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1995-1997**

State	YTD 1997		YTD 1996		YTD 1995		1997	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	November	
							Commercial	Industrial
Alabama .....	54.6	18.0	81.2	22.6	80.0	23.1	61.7	20.2
Alaska .....	62.3	97.6	63.6	63.9	80.2	51.5	59.4	100.0
Arizona .....	84.4	25.7	85.3	19.7	88.5	24.7	83.2	32.0
Arkansas .....	93.7	10.6	94.9	12.9	95.2	14.1	89.9	11.2
California .....	49.7	9.7	54.5	10.3	52.2	12.3	49.1	7.9
Colorado .....	NA	NA	93.0	21.3	94.3	25.1	NA	NA
Connecticut .....	NA	65.8	86.8	85.0	80.6	86.8	83.1	55.7
Delaware .....	100.0	30.1	100.0	37.9	100.0	68.3	100.0	26.3
District of Columbia .....	58.1	—	71.4	—	76.7	—	60.4	—
Florida .....	96.8	NA	97.2	12.9	97.6	16.0	95.2	5.0
Georgia .....	87.6	16.5	94.2	32.3	92.9	34.7	87.3	18.3
Hawaii .....	NA	—	100.0	—	100.0	—	NA	—
Idaho .....	NA	NA	86.4	1.3	86.1	2.3	83.2	1.9
Illinois .....	53.6	9.8	53.5	12.6	49.8	10.6	51.5	8.2
Indiana .....	NA	13.2	96.1	16.1	86.7	13.8	91.5	19.2
Iowa .....	86.9	7.6	87.8	8.7	88.9	8.1	84.3	12.0
Kansas .....	65.0	8.6	71.7	7.7	74.3	12.7	56.7	5.7
Kentucky .....	NA	NA	90.6	27.5	88.5	26.9	89.2	14.4
Louisiana .....	NA	NA	98.3	10.1	98.1	29.8	97.4	7.4
Maine .....	100.0	91.5	100.0	91.1	100.0	100.0	100.0	92.2
Maryland .....	65.0	7.6	91.7	10.8	96.8	13.3	37.4	41.7
Massachusetts .....	59.7	19.1	75.5	26.4	85.7	31.6	60.0	32.2
Michigan .....	62.5	6.2	66.4	8.8	65.3	8.7	63.9	9.3
Minnesota .....	98.5	41.9	96.3	40.9	93.6	34.4	99.1	44.2
Mississippi .....	NA	NA	97.4	41.5	97.1	42.6	93.3	35.4
Missouri .....	NA	NA	81.8	24.2	82.9	22.2	78.3	19.9
Montana .....	90.5	3.0	91.4	3.3	91.6	3.0	90.4	2.8
Nebraska .....	NA	23.5	69.1	20.0	75.6	15.8	68.9	34.2
Nevada .....	71.1	1.8	74.1	1.6	76.5	1.8	67.9	5.9
New Hampshire .....	NA	NA	97.1	56.3	99.2	64.4	89.1	NA
New Jersey .....	66.6	48.9	73.8	54.9	86.9	52.7	58.9	32.2
New Mexico .....	65.4	13.7	63.6	2.5	59.6	5.7	70.9	14.1
New York .....	NA	NA	76.9	9.9	75.6	13.2	NA	9.0
North Carolina .....	93.9	41.3	96.2	56.2	91.2	42.7	99.4	78.1
North Dakota .....	88.7	39.7	87.5	24.2	79.9	17.4	90.8	35.6
Ohio .....	67.8	3.9	71.4	7.0	75.7	7.1	77.3	4.2
Oklahoma .....	85.0	4.6	84.0	6.5	85.0	15.7	78.5	4.3
Oregon .....	98.5	15.8	98.3	18.2	98.1	25.5	98.4	13.4
Pennsylvania .....	62.1	13.9	72.0	18.1	67.9	15.6	61.9	13.9
Rhode Island .....	82.6	18.0	92.1	17.4	100.0	12.0	80.7	41.2
South Carolina .....	98.2	79.3	98.9	85.4	95.8	80.7	100.0	86.6
South Dakota .....	82.9	23.0	82.7	24.7	86.6	27.2	84.0	37.5
Tennessee .....	NA	NA	94.2	47.5	93.2	46.7	95.8	57.1
Texas .....	59.9	NA	83.1	20.3	68.6	27.4	65.5	12.1
Utah .....	82.7	9.2	81.4	8.9	81.6	11.2	83.1	9.8
Vermont .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia .....	77.0	12.3	84.9	17.5	82.8	14.6	88.7	21.2
Washington .....	NA	NA	85.6	24.2	92.0	33.3	NA	NA
West Virginia .....	50.7	12.2	54.2	14.3	50.1	14.2	50.3	13.8
Wisconsin .....	NA	NA	91.6	36.6	91.7	47.1	84.7	28.9
Wyoming .....	NA	NA	89.6	2.9	93.0	2.9	79.4	1.3
<b>Total .....</b>	<b>65.1</b>	<b>15.3</b>	<b>77.6</b>	<b>19.3</b>	<b>76.3</b>	<b>24.0</b>	<b>64.0</b>	<b>15.6</b>

See footnotes at end of table.

**Table 25. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1995-1997 — Continued**

State	1997							
	October		September		August		July	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama .....	42.8	18.2	33.1	17.6	25.1	17.4	22.8	17.3
Alaska .....	<sup>R</sup> 60.1	100.0	59.0	100.0	<sup>R</sup> 54.2	92.8	59.5	91.4
Arizona .....	81.1	31.0	83.9	30.3	78.7	30.1	79.7	31.3
Arkansas .....	92.2	10.0	90.9	8.7	91.4	7.9	89.9	9.3
California .....	41.6	6.1	40.9	9.9	41.5	7.7	45.6	7.8
Colorado .....	NA	NA	NA	NA	NA	NA	NA	NA
Connecticut .....	NA	66.5	74.9	65.5	80.1	62.1	72.8	63.5
Delaware .....	100.0	29.0	100.0	25.7	100.0	27.5	100.0	27.5
District of Columbia .....	44.5	—	35.5	—	38.8	—	43.9	—
Florida .....	96.7	5.4	96.9	NA	97.3	6.1	96.9	5.7
Georgia .....	84.5	20.6	81.6	9.1	80.1	15.7	79.1	17.4
Hawaii .....	100.0	—	100.0	—	100.0	—	100.0	—
Idaho .....	76.4	1.6	<sup>R</sup> 82.5	1.7	82.9	1.4	83.2	5.2
Illinois .....	49.1	7.1	46.7	10.4	39.4	5.3	45.8	3.4
Indiana .....	<sup>R</sup> 87.4	12.2	75.4	8.4	74.7	7.8	72.4	9.0
Iowa .....	79.4	10.3	77.2	5.9	84.5	6.5	75.0	5.3
Kansas .....	66.3	5.8	50.3	6.4	<sup>R</sup> 44.9	7.0	<sup>R</sup> 46.8	<sup>R</sup> 5.5
Kentucky .....	NA	NA	83.9	13.0	79.1	11.5	82.9	12.4
Louisiana .....	98.4	7.0	<sup>R</sup> 98.1	NA	99.2	7.0	98.8	NA
Maine .....	100.0	89.4	100.0	87.8	100.0	88.6	100.0	100.0
Maryland .....	50.5	5.5	49.0	2.0	54.3	4.9	57.5	3.4
Massachusetts .....	46.0	25.9	41.4	28.0	39.1	22.4	43.6	23.6
Michigan .....	53.3	4.2	38.8	3.1	39.8	3.9	54.7	5.8
Minnesota .....	98.6	40.2	97.7	41.9	98.3	37.0	98.4	47.2
Mississippi .....	<sup>R</sup> 89.5	<sup>R</sup> 37.5	NA	NA	NA	NA	NA	NA
Missouri .....	NA	NA	68.4	22.5	68.7	16.7	68.9	18.6
Montana .....	87.9	2.3	85.5	1.9	87.4	2.0	90.4	1.7
Nebraska .....	46.6	21.8	59.0	21.0	<sup>R</sup> 64.8	<sup>R</sup> 14.4	<sup>R</sup> 64.4	<sup>R</sup> 34.1
Nevada .....	65.9	5.5	62.9	4.6	63.1	7.0	73.2	10.2
New Hampshire .....	85.7	44.2	NA	NA	88.1	47.1	87.0	51.4
New Jersey .....	57.7	27.7	58.1	28.1	59.0	44.0	55.6	26.5
New Mexico .....	57.2	9.5	52.9	14.6	53.2	18.3	53.5	18.5
New York .....	NA	9.4	NA	7.3	NA	NA	NA	NA
North Carolina .....	98.2	68.8	86.4	21.2	84.4	24.2	84.6	20.4
North Dakota .....	84.0	26.1	74.7	19.4	68.8	28.1	46.5	45.7
Ohio .....	62.7	1.8	60.7	1.5	59.9	2.0	58.7	2.0
Oklahoma .....	75.7	3.1	75.5	3.2	73.6	3.0	79.0	3.8
Oregon .....	97.5	14.5	98.0	13.2	98.3	12.4	98.3	13.8
Pennsylvania .....	48.6	12.7	54.6	12.1	64.5	12.5	54.5	9.7
Rhode Island .....	71.1	39.9	68.7	33.6	67.9	39.6	71.1	41.7
South Carolina .....	99.9	87.5	98.5	84.8	96.4	57.3	99.9	<sup>R</sup> 74.5
South Dakota .....	68.3	17.8	59.9	14.0	72.1	12.7	78.3	12.0
Tennessee .....	86.4	26.8	82.4	18.2	80.4	19.8	80.7	24.4
Texas .....	59.4	13.9	47.0	NA	52.3	14.1	50.6	14.2
Utah .....	80.2	9.2	74.8	12.0	71.7	7.9	72.8	8.2
Vermont .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia .....	68.1	13.5	67.6	7.4	64.6	4.9	62.9	5.5
Washington .....	NA	NA	NA	NA	NA	NA	NA	NA
West Virginia .....	35.6	13.2	29.8	11.8	21.6	11.2	23.2	11.8
Wisconsin .....	67.9	<sup>R</sup> 25.7	<sup>R</sup> 60.9	<sup>R</sup> 22.8	<sup>R</sup> 53.8	<sup>R</sup> 21.3	<sup>R</sup> 66.1	<sup>R</sup> 20.4
Wyoming .....	79.7	NA	NA	NA	75.8	2.1	28.8	2.1
<b>Total .....</b>	<sup>R</sup> 58.2	14.4	<sup>R</sup> 54.2	<sup>R</sup> 13.1	<sup>R</sup> 53.1	<sup>R</sup> 13.0	<sup>R</sup> 54.8	<sup>R</sup> 13.6

See footnotes at end of table.

**Table 25. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1995-1997 — Continued**

State	1997							
	June		May		April		March	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama .....	49.5	17.2	55.5	18.0	59.3	17.3	76.2	17.9
Alaska .....	60.0	99.0	63.8	99.0	65.8	98.8	<sup>R</sup> 66.0	98.6
Arizona .....	82.7	18.7	86.1	18.1	83.8	21.2	86.5	22.8
Arkansas .....	90.7	10.2	91.4	11.3	93.5	10.9	94.9	12.1
California .....	48.2	8.9	49.5	13.0	51.6	10.6	54.5	11.0
Colorado .....	NA	NA	NA	NA	95.0	25.2	NA	NA
Connecticut .....	77.1	63.7	79.7	65.6	87.1	68.2	87.0	68.2
Delaware .....	100.0	28.2	100.0	34.4	100.0	35.6	100.0	32.7
District of Columbia .....	46.7	—	53.7	—	100.0	—	59.9	—
Florida .....	97.6	6.8	97.7	6.4	97.8	7.0	97.0	6.7
Georgia .....	82.7	13.4	83.9	12.9	87.2	15.9	88.9	15.7
Hawaii .....	100.0	—	100.0	—	100.0	—	100.0	—
Idaho .....	83.3	2.3	86.5	2.5	86.1	2.1	87.8	2.1
Illinois .....	54.8	14.7	47.4	13.8	53.1	8.4	54.4	10.3
Indiana .....	39.6	9.2	38.3	9.6	82.1	10.6	86.5	12.7
Iowa .....	90.1	5.1	83.2	5.4	90.3	7.2	88.5	7.4
Kansas .....	<sup>R</sup> 56.1	<sup>R</sup> 4.9	58.3	13.9	66.1	12.6	60.1	11.4
Kentucky .....	87.7	14.1	85.3	15.7	88.2	14.9	89.6	15.5
Louisiana .....	98.6	7.6	98.5	8.4	98.1	7.4	71.7	10.5
Maine .....	100.0	88.5	100.0	91.2	100.0	91.3	100.0	91.8
Maryland .....	56.5	6.7	62.3	12.5	76.8	1.6	79.8	17.3
Massachusetts .....	46.1	32.3	67.1	41.7	72.2	38.5	70.9	34.4
Michigan .....	44.8	5.4	57.7	7.8	65.3	10.4	66.4	12.8
Minnesota .....	97.0	37.7	97.8	39.3	98.0	42.6	99.0	47.3
Mississippi .....	91.5	35.9	96.7	39.8	92.4	35.4	95.8	36.5
Missouri .....	71.5	18.5	76.9	24.1	80.7	16.7	83.9	27.3
Montana .....	88.7	2.2	90.2	2.1	91.1	4.5	90.4	4.1
Nebraska .....	<sup>R</sup> 61.4	18.7	68.2	21.4	72.3	19.0	70.8	21.8
Nevada .....	61.0	9.9	65.7	7.4	69.2	8.0	78.1	7.3
New Hampshire .....	90.7	55.4	91.6	75.1	92.0	62.3	94.0	53.6
New Jersey .....	60.8	26.3	56.5	28.5	64.0	36.9	68.5	30.3
New Mexico .....	43.1	8.1	59.5	10.9	58.1	2.8	70.5	3.9
New York .....	NA	NA	NA	NA	NA	NA	NA	NA
North Carolina .....	97.5	40.8	89.3	21.7	87.5	22.4	91.6	30.2
North Dakota .....	80.8	28.9	88.7	36.5	91.9	39.4	91.4	59.4
Ohio .....	55.9	2.0	58.0	3.2	64.8	3.3	69.2	5.5
Oklahoma .....	79.2	2.1	82.0	4.1	86.3	3.7	88.1	5.9
Oregon .....	98.1	17.3	98.5	16.7	98.5	19.3	98.8	19.6
Pennsylvania .....	54.7	13.1	48.0	13.3	64.7	14.1	64.3	15.4
Rhode Island .....	72.4	48.1	80.8	48.5	88.5	55.8	82.2	61.7
South Carolina .....	91.0	89.0	100.0	87.0	95.8	77.7	97.4	80.3
South Dakota .....	83.7	10.7	80.7	17.3	85.7	22.6	86.3	26.7
Tennessee .....	NA	NA	86.7	29.6	90.4	28.1	NA	NA
Texas .....	56.6	19.1	56.5	18.1	59.2	20.1	66.7	17.3
Utah .....	77.0	9.4	78.8	9.0	83.8	9.2	83.0	6.7
Vermont .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia .....	65.3	8.1	72.2	6.5	72.6	12.2	77.0	13.2
Washington .....	79.8	25.5	80.7	21.0	83.1	26.8	86.0	27.3
West Virginia .....	29.1	11.3	43.8	11.4	49.6	7.1	60.3	19.7
Wisconsin .....	<sup>R</sup> 58.8	<sup>R</sup> 19.9	<sup>R</sup> 75.5	<sup>R</sup> 27.6	<sup>R</sup> 81.8	<sup>R</sup> 25.6	<sup>R</sup> 87.4	<sup>R</sup> 34.0
Wyoming .....	52.1	1.9	77.8	1.8	62.1	1.9	74.0	1.8
<b>Total</b> .....	<sup>R</sup> 56.6	15.2	<sup>R</sup> 59.4	<sup>R</sup> 15.7	<sup>R</sup> 66.3	16.0	<sup>R</sup> 68.6	<sup>R</sup> 16.4

See footnotes at end of table.



**Table 25. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1995-1997 — Continued**

State	1997				1996			
	February		January		Total		December	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama .....	79.7	19.5	77.7	17.7	81.1	22.6	80.7	22.4
Alaska .....	<sup>R</sup> 67.3	97.9	69.5	97.1	63.4	64.3	61.8	68.0
Arizona .....	87.8	24.7	87.4	19.9	85.2	19.7	84.1	19.9
Arkansas .....	96.6	13.6	96.1	12.9	95.0	13.3	95.7	13.8
California .....	58.5	11.3	58.0	11.3	54.9	11.2	56.1	9.9
Colorado .....	NA	NA	NA	NA	93.2	7.4	94.3	7.1
Connecticut .....	90.2	78.8	90.1	76.0	87.0	84.6	87.9	80.1
Delaware .....	100.0	34.0	100.0	28.8	100.0	37.3	100.0	30.8
District of Columbia .....	62.8	—	67.9	—	70.5	—	65.3	—
Florida .....	96.6	8.0	96.1	8.2	97.1	13.4	96.1	12.5
Georgia .....	92.7	21.1	93.7	20.0	94.1	32.2	93.2	31.6
Hawaii .....	100.0	—	100.0	—	100.0	—	100.0	—
Idaho .....	89.7	2.2	87.8	1.9	86.6	1.4	87.6	2.6
Illinois .....	54.3	9.8	62.0	14.6	53.9	13.7	56.1	22.5
Indiana .....	93.0	19.8	93.7	20.1	96.3	16.6	97.4	21.4
Iowa .....	89.4	7.2	90.3	9.6	87.7	9.0	87.2	11.7
Kansas .....	65.7	13.2	86.2	8.2	71.7	7.7	71.6	8.3
Kentucky .....	90.8	19.4	91.9	22.1	90.8	27.1	91.9	24.1
Louisiana .....	98.4	8.6	88.0	9.5	98.3	10.6	98.0	11.3
Maine .....	100.0	100.0	100.0	100.0	100.0	91.0	100.0	90.2
Maryland .....	82.8	14.7	84.5	2.8	91.9	11.7	93.2	19.7
Massachusetts .....	67.3	36.8	67.3	48.6	74.7	41.9	68.9	33.8
Michigan .....	69.4	14.2	69.2	14.0	66.9	12.5	70.2	15.8
Minnesota .....	98.7	45.5	98.6	37.1	96.2	41.3	95.6	44.5
Mississippi .....	96.3	37.6	96.9	38.4	97.4	41.7	96.9	44.1
Missouri .....	79.9	19.5	86.3	28.3	82.2	24.7	84.6	33.1
Montana .....	93.0	4.1	90.9	4.4	91.5	3.4	92.7	4.3
Nebraska .....	<sup>R</sup> 87.9	27.0	77.6	28.9	70.0	20.4	76.6	23.5
Nevada .....	79.7	15.2	77.2	8.3	74.2	7.2	74.9	7.8
New Hampshire .....	99.1	52.1	98.8	44.2	96.9	55.4	96.1	45.4
New Jersey .....	93.5	36.0	70.6	35.9	73.3	53.6	70.2	35.5
New Mexico .....	72.5	2.1	74.0	19.4	64.7	3.5	71.8	13.3
New York .....	NA	NA	NA	NA	77.0	14.7	NA	13.1
North Carolina .....	95.9	39.6	100.0	90.1	96.5	59.4	99.0	91.6
North Dakota .....	93.9	49.5	93.4	43.3	88.0	26.5	91.0	43.9
Ohio .....	68.5	5.6	72.5	8.4	71.8	7.4	74.0	10.0
Oklahoma .....	90.5	8.7	90.7	7.4	84.5	6.6	87.6	7.1
Oregon .....	98.9	20.2	98.8	17.0	98.3	18.0	98.6	16.0
Pennsylvania .....	69.8	14.9	69.3	18.9	70.4	18.5	61.0	22.3
Rhode Island .....	91.7	45.9	89.6	38.1	91.8	16.9	89.1	12.4
South Carolina .....	98.2	78.2	100.0	86.8	99.0	85.8	100.0	89.3
South Dakota .....	85.7	30.4	86.9	31.4	82.7	24.6	82.8	23.5
Tennessee .....	92.5	28.7	94.0	35.9	94.3	47.0	95.3	42.8
Texas .....	67.8	17.1	65.4	19.2	83.5	20.2	87.1	17.5
Utah .....	87.2	10.8	86.2	10.2	81.9	9.0	84.4	9.7
Vermont .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia .....	81.6	6.8	87.5	15.5	85.3	18.0	88.1	22.1
Washington .....	86.7	26.8	87.8	26.7	85.9	24.4	87.4	27.2
West Virginia .....	67.8	14.8	67.8	14.4	56.3	14.3	71.3	14.4
Wisconsin .....	<sup>R</sup> 87.3	<sup>R</sup> 35.9	<sup>R</sup> 88.8	<sup>R</sup> 37.6	91.6	36.4	91.8	34.5
Wyoming .....	82.1	1.9	85.0	1.5	85.9	2.9	69.0	3.1
<b>Total .....</b>	<sup>R</sup> 71.9	<sup>R</sup> 16.8	<sup>R</sup> 72.5	<sup>R</sup> 18.5	77.6	20.2	78.4	20.7

See footnotes at end of table.

**Table 25. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1995-1997 — Continued**

State	1996							
	November		October		September		August	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama .....	73.2	22.6	71.2	20.4	73.1	20.8	72.5	19.6
Alaska .....	58.2	71.3	54.2	64.8	50.7	67.0	53.1	60.9
Arizona .....	84.1	18.2	83.2	16.8	83.5	16.7	78.5	18.0
Arkansas .....	94.1	13.6	90.2	13.6	92.7	11.3	91.6	10.9
California .....	57.9	10.8	44.1	9.3	45.3	9.9	44.7	9.0
Colorado .....	92.8	8.3	89.1	9.7	90.6	9.2	87.1	8.3
Connecticut .....	84.0	74.8	81.3	71.9	68.9	71.2	77.6	78.0
Delaware .....	100.0	32.5	100.0	30.7	100.0	27.6	100.0	26.2
District of Columbia .....	55.1	—	48.0	—	46.9	—	52.1	—
Florida .....	97.0	11.1	97.4	12.2	97.6	10.1	97.2	11.0
Georgia .....	92.2	26.7	90.6	28.9	86.6	35.0	88.1	28.5
Hawaii .....	100.0	—	100.0	—	100.0	—	100.0	—
Idaho .....	84.9	0.5	77.3	1.7	80.0	1.3	81.9	1.8
Illinois .....	53.0	13.7	48.8	8.6	43.2	6.4	43.0	5.8
Indiana .....	96.1	16.3	91.5	11.7	86.8	9.2	86.8	9.4
Iowa .....	86.6	18.4	81.8	9.8	77.0	5.6	92.2	8.3
Kansas .....	82.4	6.9	70.0	9.2	72.8	9.4	38.0	7.3
Kentucky .....	88.9	21.5	88.9	20.9	84.3	18.6	85.4	18.1
Louisiana .....	98.3	9.9	98.6	9.8	98.9	10.2	97.5	12.1
Maine .....	100.0	91.5	100.0	91.3	100.0	89.1	100.0	88.0
Maryland .....	92.2	2.1	87.3	3.7	87.0	1.6	85.0	3.7
Massachusetts .....	62.5	45.3	69.5	39.6	55.4	34.6	61.3	39.6
Michigan .....	67.2	12.7	55.8	8.1	44.6	5.5	41.3	6.0
Minnesota .....	94.8	44.1	92.4	41.2	90.3	35.8	95.8	38.6
Mississippi .....	96.7	44.8	96.0	39.1	97.2	40.0	97.9	41.5
Missouri .....	78.6	27.7	69.3	17.0	67.3	18.2	58.1	13.2
Montana .....	91.6	4.4	87.5	2.8	86.1	2.1	87.2	1.4
Nebraska .....	68.6	23.3	40.3	15.2	66.2	17.0	54.1	17.2
Nevada .....	70.8	7.4	64.0	5.2	67.6	5.3	66.7	5.6
New Hampshire .....	93.6	59.3	94.3	53.7	96.0	53.7	94.8	51.4
New Jersey .....	69.4	52.7	67.2	48.2	61.8	53.2	60.0	57.8
New Mexico .....	68.5	4.8	63.5	2.6	61.3	2.0	62.2	3.8
New York .....	NA	11.4	NA	11.3	NA	12.5	NA	12.9
North Carolina .....	92.0	49.7	85.7	26.7	86.1	24.7	88.5	34.7
North Dakota .....	89.7	49.6	79.9	36.2	69.1	21.1	74.5	8.7
Ohio .....	72.4	7.8	68.5	3.7	65.1	4.3	53.9	3.6
Oklahoma .....	82.1	7.6	73.0	4.7	72.7	4.8	69.0	5.4
Oregon .....	98.3	14.4	97.0	14.1	97.6	14.2	98.0	13.6
Pennsylvania .....	63.3	16.6	59.7	13.5	66.3	13.8	66.2	14.8
Rhode Island .....	87.3	17.4	66.5	18.3	49.9	13.2	86.8	14.5
South Carolina .....	97.4	85.8	96.4	83.4	97.3	84.5	97.3	84.7
South Dakota .....	80.6	24.2	72.9	10.4	69.4	7.9	66.9	8.8
Tennessee .....	92.8	40.6	87.3	45.0	80.8	36.2	88.4	40.4
Texas .....	84.2	16.5	75.4	20.2	77.9	19.4	81.1	21.8
Utah .....	81.2	9.3	79.5	9.4	78.4	8.3	71.9	7.5
Vermont .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia .....	84.8	21.4	74.3	11.1	65.5	11.9	74.0	10.2
Washington .....	84.6	22.2	82.7	19.8	81.5	20.4	80.1	12.0
West Virginia .....	54.5	14.8	43.4	13.3	34.7	12.0	44.4	13.1
Wisconsin .....	90.9	34.6	87.1	29.9	82.4	26.6	83.8	26.0
Wyoming .....	81.1	0.8	70.5	0.9	98.7	4.0	98.3	4.0
<b>Total</b> .....	<b>76.1</b>	<b>19.0</b>	<b>68.8</b>	<b>18.1</b>	<b>66.9</b>	<b>17.6</b>	<b>65.9</b>	<b>18.1</b>

See footnotes at end of table.

**Table 25. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1995-1997 — Continued**

State	1996							
	July		June		May		April	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama .....	73.7	20.6	75.4	20.9	80.2	23.1	83.8	24.0
Alaska .....	51.2	55.0	55.0	59.6	59.1	69.5	62.5	64.3
Arizona .....	82.1	17.2	83.6	18.5	84.8	26.0	83.7	19.8
Arkansas .....	88.5	11.0	94.2	11.7	92.4	13.0	96.3	14.1
California .....	48.4	10.4	53.5	10.4	52.6	11.6	64.1	12.6
Colorado .....	88.0	9.0	92.5	6.9	92.4	6.2	93.1	6.0
Connecticut .....	81.1	80.3	78.9	89.3	78.5	91.9	89.8	93.9
Delaware .....	100.0	26.2	100.0	38.3	100.0	31.7	100.0	28.5
District of Columbia .....	56.4	—	70.5	—	70.4	—	85.4	—
Florida .....	97.5	11.5	97.6	12.6	97.8	14.8	97.6	15.8
Georgia .....	88.7	18.9	89.0	23.9	92.2	31.7	94.9	35.5
Hawaii .....	100.0	—	100.0	—	100.0	—	100.0	—
Idaho .....	82.4	1.1	86.0	1.8	85.7	1.4	87.2	1.4
Illinois .....	39.6	5.7	44.1	5.1	49.7	9.3	51.7	14.8
Indiana .....	91.6	10.2	88.9	5.0	93.7	30.3	97.4	20.0
Iowa .....	77.2	4.9	86.6	5.4	85.9	5.6	85.8	7.4
Kansas .....	47.5	8.4	57.7	4.7	56.3	9.2	68.5	7.5
Kentucky .....	85.9	25.6	91.1	16.8	84.0	23.2	90.3	33.2
Louisiana .....	99.2	11.1	98.6	10.8	97.5	9.9	99.0	10.9
Maine .....	100.0	88.7	100.0	89.8	100.0	90.1	100.0	86.5
Maryland .....	81.4	6.3	86.8	8.4	86.2	11.1	92.4	18.2
Massachusetts .....	68.1	41.7	71.3	44.1	79.2	40.7	80.2	48.2
Michigan .....	44.2	5.8	46.1	7.2	64.4	10.2	68.5	15.1
Minnesota .....	94.4	38.6	95.4	38.3	97.3	38.5	97.6	50.2
Mississippi .....	97.4	38.3	96.9	40.4	97.4	40.7	97.3	41.8
Missouri .....	62.0	19.4	72.3	23.7	78.7	24.7	84.6	26.2
Montana .....	87.8	1.7	90.8	1.8	90.8	2.7	92.6	3.8
Nebraska .....	51.8	17.8	66.0	14.9	69.8	19.0	77.3	20.6
Nevada .....	69.2	5.8	73.0	6.6	74.2	6.5	76.4	8.3
New Hampshire .....	93.7	52.7	95.6	56.1	98.1	61.9	98.0	58.5
New Jersey .....	62.0	57.4	66.3	48.9	68.8	59.0	73.5	58.4
New Mexico .....	65.7	1.9	65.0	3.8	46.3	3.5	58.5	2.1
New York .....	NA	11.9	NA	13.3	NA	14.1	NA	15.5
North Carolina .....	96.0	64.5	90.7	48.1	91.4	40.2	99.7	79.4
North Dakota .....	77.2	9.1	77.2	8.2	85.1	17.8	88.7	22.4
Ohio .....	56.4	2.9	42.1	3.8	63.1	5.8	72.3	8.0
Oklahoma .....	72.2	4.8	75.5	4.9	78.5	3.1	88.2	8.3
Oregon .....	98.1	13.6	98.3	16.3	98.2	18.1	98.1	23.7
Pennsylvania .....	64.9	15.6	62.7	13.9	67.9	15.7	71.6	18.2
Rhode Island .....	84.1	10.9	92.0	18.1	97.8	21.5	98.2	19.7
South Carolina .....	100.0	90.0	96.9	81.8	97.5	82.9	100.0	89.3
South Dakota .....	67.1	9.9	74.5	7.7	78.7	12.2	85.0	17.1
Tennessee .....	94.5	50.0	90.9	49.1	92.6	44.4	96.9	57.0
Texas .....	82.0	23.1	80.0	20.7	81.5	20.0	84.5	18.6
Utah .....	73.3	7.2	72.9	9.2	77.7	8.8	82.3	9.9
Vermont .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia .....	68.8	11.2	66.9	14.7	78.5	22.2	84.3	21.7
Washington .....	80.0	21.7	82.0	22.4	84.4	23.8	84.4	26.6
West Virginia .....	43.9	13.0	27.1	12.6	45.3	12.9	53.9	13.2
Wisconsin .....	82.1	26.3	86.1	26.7	89.9	35.7	92.0	38.4
Wyoming .....	99.6	3.2	96.2	3.7	81.0	3.8	82.0	3.1
<b>Total .....</b>	<b>67.3</b>	<b>19.1</b>	<b>69.3</b>	<b>17.6</b>	<b>73.9</b>	<b>19.6</b>	<b>79.3</b>	<b>21.4</b>

<sup>R</sup> = Revised Data.

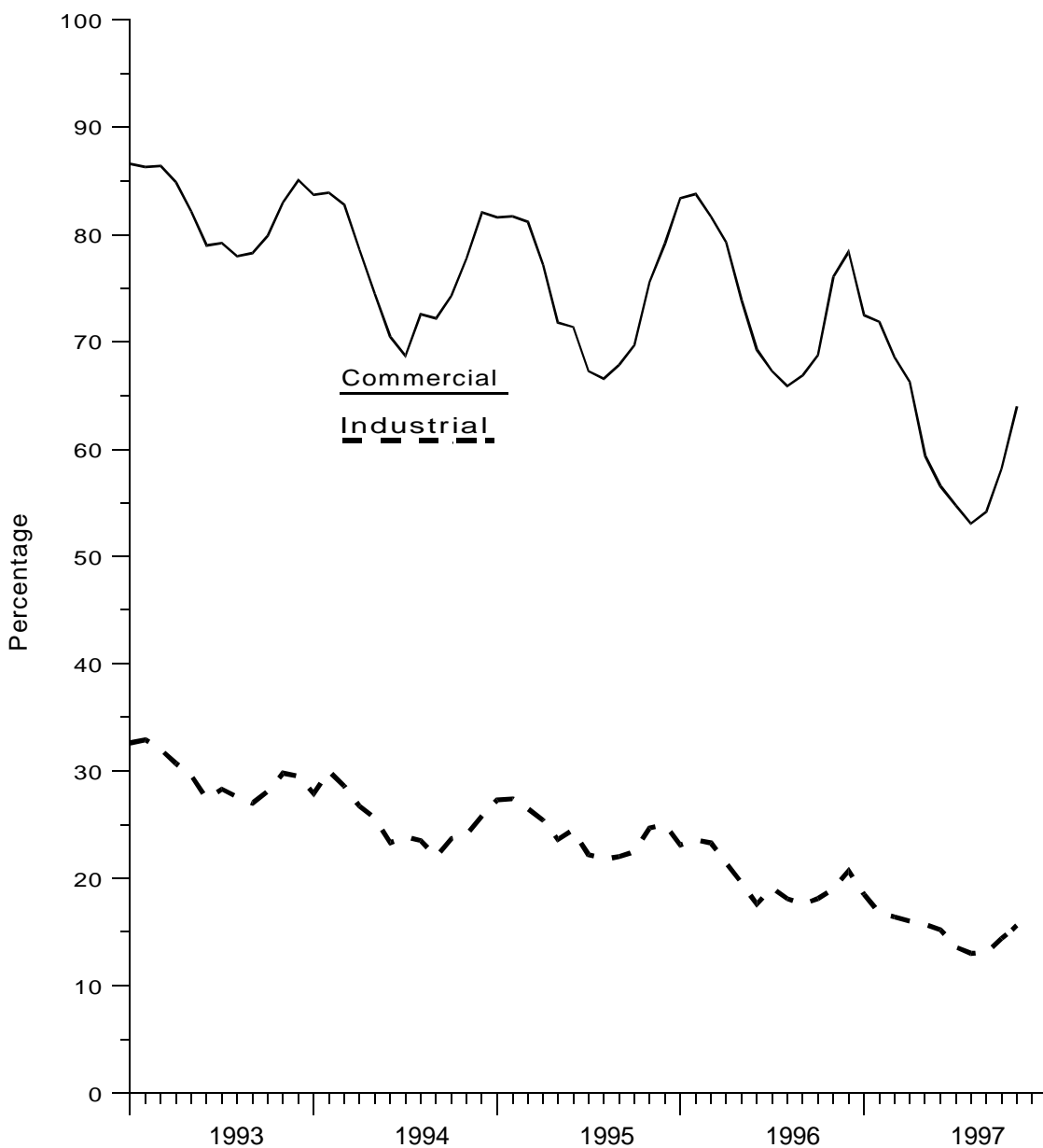
NA = Not Available.

— = Not Applicable.

Notes: Volumes of natural gas reported for the commercial and industrial sectors in this publication include data for both sales and deliveries for the account of others. This table shows the percent of the total State volume that represents natural gas sales to the commercial and industrial sectors. This information may be helpful in evaluating commercial and industrial price data which are based on sales data only. See Appendix C, Statistical Considerations, for a discussion of the computation of natural gas prices.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

**Figure 6. Percentage of Total Deliveries Represented by Onsystem Sales, 1993-1997**



Sources: Energy Information Administration, Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers" and Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

**Table 26. Gas Home Customer-Weighted Heating Degree Days**

Census Divisions	November 1 through November 30					December 1 through December 31				
	Normal <sup>a</sup>	1996	1997	Percent Change		Normal <sup>a</sup>	1996	1997	Percent Change	
				Normal to 1997	1996 to 1997				Normal to 1997	1996 to 1997
New England										
CT, ME, MA, NH, RI, VT .....	693	820	784	13.1	-4.4	1,073	902	1,028	-4.2	14.0
Middle Atlantic										
NJ, NY, PA .....	646	775	729	12.8	-5.9	1,010	864	948	-6.1	9.7
East North Central										
IL, IN, MI, OH, WI .....	730	917	829	13.6	-9.6	1,142	1,076	1,052	-7.9	-2.2
West North Central										
IA, KS, MN, MO, ND, NE, SD .....	788	982	892	13.2	-9.2	1,235	1,272	1,090	-11.7	-14.3
South Atlantic										
DE, FL, GA, MD and DC, NC, SC, VA, WV .....	421	538	519	23.3	-3.5	696	621	708	1.7	14.0
East South Central										
AL, KY, MS, TN .....	431	524	546	26.7	4.2	717	621	778	8.5	25.3
West South Central										
AR, LA, OK, TX .....	280	291	359	28.2	23.4	534	443	590	10.5	33.2
Mountain										
AZ, CO, ID, MT, NV, NM, UT, WY .....	715	711	737	3.1	3.7	1,006	924	1,039	3.3	12.4
Pacific <sup>b</sup>										
CA, OR, WA .....	341	320	276	-19.1	-13.8	519	454	504	-2.9	11.0
U.S. Average <sup>b</sup> .....	559	657	621	11.1	-5.5	881	804	845	-4.1	5.1

Census Divisions	January 1 through January 31					Cumulative November 1 through January 31				
	Normal <sup>a</sup>	1997	1998	Percent Change		Normal <sup>a</sup>	1997	1998	Percent Change	
				Normal to 1998	1997 to 1998				Normal to 1998	1997 to 1998
New England										
CT, ME, MA, NH, RI, VT .....	1,222	1,183	1,014	-17.0	-14.3	2,988	2,905	2,826	-5.4	-2.7
Middle Atlantic										
NJ, NY, PA .....	1,168	1,129	894	-23.5	-20.8	2,824	2,768	2,571	-9.0	-7.1
East North Central										
IL, IN, MI, OH, WI .....	1,314	1,330	1,037	-21.1	-22.0	3,186	3,323	2,918	-8.4	-12.2
West North Central										
IA, KS, MN, MO, ND, NE, SD .....	1,384	1,420	1,175	-15.1	-17.3	3,407	3,674	3,157	-7.3	-14.1
South Atlantic										
DE, FL, GA, MD and DC, NC, SC, VA, WV .....	809	740	619	-23.5	-16.4	1,926	1,899	1,846	-4.2	-2.8
East South Central										
AL, KY, MS, TN .....	843	793	634	-24.8	-20.1	1,991	1,938	1,958	-1.7	1.0
West South Central										
AR, LA, OK, TX .....	631	613	440	-30.3	-28.2	1,445	1,347	1,389	-3.9	3.1
Mountain										
AZ, CO, ID, MT, NV, NM, UT, WY .....	1,052	1,021	926	-12.0	-9.3	2,773	2,656	2,702	-2.6	1.7
Pacific <sup>b</sup>										
CA, OR, WA .....	526	484	472	-10.3	-2.5	1,386	1,258	1,252	-9.7	-0.5
U.S. Average <sup>b</sup> .....	995	975	797	-19.9	-18.3	2,435	2,436	2,263	-7.1	-7.1

<sup>a</sup> Normal is based on calculations of data from 1961 through 1990.

<sup>b</sup> Excludes Alaska and Hawaii.

Note: See Appendix A, Explanatory Note 10 for discussion of Heating Degree-Days computations.

Sources: National Oceanic and Atmospheric Administration.

## Appendix A

### Explanatory Notes

The Energy Information Administration (EIA) publishes monthly data for the supply and disposition of natural gas in the United States in the *Natural Gas Monthly* (NGM). The information in this Appendix is provided to assist users in evaluating the monthly data. There is a brief description of what data are estimated and what data are taken from submitted reports, followed by ten technical notes that provide important information for individual data series.

The monthly data are preliminary when initially published. Data shown in this report for the most current months are taken from the EIA Short-Term Integrated Forecasting System (STIFS) model computations. Each month, EIA staff review the STIFS model estimates and adjust them, if necessary, based on their knowledge of new developments in the natural gas industry. Data for prior months are estimated or taken from submitted reports.

**Table A1. Methodology for Reporting Initial Monthly Natural Gas Supply and Disposition Data**

Components	Reporting Methodology
<b>Supply and Disposition</b>	
Marketed Production	Reported on Form EIA-895 and Estimated from Historical Data
Extraction Loss	Derived from Marketed Production
Dry Production	Marketed Production minus Extraction Loss
Withdrawals from Storage	Reported on Form EIA-191
Supplemental Gaseous Fuels	Derived from Supply Estimates and Coal Gasification Information
Imports	Estimated from National Energy Board of Canada Information and Liquefied Natural Gas Information
Additions to Storage	Reported on Form EIA-191
Exports	Estimated from Industry Trends and Liquefied Natural Gas Information
Current-Month Consumption	Estimated from Historical Month-to-Month Percent Changes
<b>Consumption by Sector</b>	
Lease and Plant Fuel	Derived from Marketed Production
Pipeline Fuel	Derived from Estimates for Lease and Plant Fuel and Deliveries to Consumers
Residential	Estimated from Reports to the Sample Survey Form EIA-857
Commercial	Estimated from Reports to the Sample Survey Form EIA-857
Industrial	Estimated from Reports to the Sample Survey Form EIA-857
Electric Utilities	Reported on Form EIA-759

For data that are not taken from STIFS computations, Table A1 below lists the methodologies for deriving the monthly data to be published.

The STIFS model contains a series of calculations that produce forecasts for all of the energy industry. It is driven primarily by three sets of inputs or assumptions: estimates of key macroeconomic variables, world oil price assumptions, and assumptions about the severity of weather. The natural gas estimates also reflect other key inputs or assumptions including gas wellhead prices, electric power generation by other energy sources, and U.S. gas import capacity. The macroeconomic variable estimates are produced by DRI/McGraw-Hill but are adjusted by EIA to reflect EIA assumptions about the world price of oil, energy product prices, and other assumptions which may affect the macroeconomic outlook. The EIA publishes forecasts for the energy industry each quarter in the *Short-Term Energy Outlook*.

For production, total supply and disposition, and storage data (Tables 1, 2, and 9), the most current two months shown are estimates produced from STIFS computations, and data that are two months or more prior to the date of publication are estimated or taken from submitted reports. For example, in the March issue of the NGM, February and March data are taken from the STIFS model computations while January and prior months data are estimated from available data sources or reported directly on EIA forms. For consumption data by sector (Table 3), the most current three months shown are estimates produced from STIFS computations while data that are three months prior to date of publication are taken from EIA forms.

## **Note 1. Nonhydrocarbon Gases Removed**

### ***Annual Data***

Data on nonhydrocarbon gases removed from marketed production—carbon dioxide, helium, hydrogen sulfide, and nitrogen—are reported by State agencies on the voluntary Form EIA-895. For 1995, of the 33 producing States, 22 reported data on nonhydrocarbon gases removed. The 22 States accounted for 60 percent of total 1995 gross withdrawals. Of the 22 States reporting nonhydrocarbon gases removed, 11 reported zero values: Alaska, Arizona, Arkansas, Colorado, Illinois, Maryland, Missouri, Nevada, New York, South Dakota, and Virginia. The ten States reporting

volumes greater than zero are Alabama, California, Florida, Kentucky, Mississippi, Nebraska, New Mexico, North Dakota, Texas, and Wyoming. In addition, Kansas, Louisiana, Montana, and Oklahoma, which together accounted for 40 percent of gross withdrawals, did not report nonhydrocarbon gases removed separately. However, their gross withdrawal data excluded all or most of the nonhydrocarbon gases removed on leases. No estimates are made for States not reporting nonhydrocarbon gases removed.

### ***Preliminary Monthly Data***

All monthly data are considered preliminary until after publication of the *Natural Gas Annual* for the year in which the report month falls. Seven States report monthly data on nonhydrocarbon gases removed: Alabama, Arizona, Mississippi, New Mexico, North Dakota, Oregon and Texas. Monthly data for California, Colorado, Florida, and Wyoming are estimated based on annual data reported on Form EIA-895. Nonhydrocarbon gases as an annual percentage of gross withdrawals reported by each of the six States is applied to each State's monthly gross withdrawal data to produce an estimate of nonhydrocarbon gases removed.

### ***Final Monthly Data***

Beginning with report year 1990, States filing the Form EIA-627, "Annual Quantity and Value of Natural Gas Report," were asked to supply monthly breakdowns of all data previously reported on an annual basis. The sums of the reported figures were used to calculate monthly volumes. In 1997 the Form EIA-627 was discontinued. States were requested to file an annual schedule on the monthly Form EIA-895, "Monthly Quantity and Value of Natural Gas Report."

For States not supplying monthly data on the annual schedule of the EIA-895, final monthly data are calculated by proportionally allocating the differences between total annual data reported on the Form EIA-895 and the sum of monthly data (January-December).

## **Note 2. Supplemental Gaseous Fuels**

### ***Annual Data***

Annual data are published from Form EIA-176.

### ***Preliminary Monthly Data***

All monthly data are considered preliminary until after the publication of the *Natural Gas Annual* for the year in which the report month falls. Monthly estimates are based on the annual ratio of supplemental gaseous fuels to the sum of dry gas production, net imports, and net withdrawals from storage. This ratio is applied to the monthly sum of these three elements to compute a monthly supplemental gaseous fuels figure.

### ***Final Monthly Data***

Monthly data are revised after publication of the *Natural Gas Annual*. Final monthly data are estimated based on the revised annual ratio of supplemental gaseous fuels to the sum of dry gas production, net imports, and net withdrawals from storage. This ratio is applied to the revised monthly sum of these three elements to compute final monthly data.

## **Note 3. Production**

### ***Annual Data***

Natural gas production data are collected from 33 gas-producing States on Form EIA-895 which includes gross withdrawals, vented and flared, repressuring, nonhydrocarbon gases removed, fuel used on leases, marketed production (wet), and extraction loss. The U.S. Minerals Management Service (MMS) also supplies data on the quantity and value of natural gas production on the Gulf of Mexico and Outer Continental Shelf. No adjustments are made to the data.

### ***Estimated Monthly Data***

State marketed production data for a particular month are estimated if data are unavailable at the time of publication. The data are estimated based on final monthly data reported on the Form EIA-895 for the previous year.

Estimates for total U.S. marketed production are based on final monthly data reported on the Form EIA-895 for the previous year. State estimates for non-hydrocarbon gas removed, gas used for repressuring,

and gas vented and flared are based on the ratio of the item to gross withdrawals as reported on the EIA-895. These ratios are applied to the month's estimates for gross withdrawals to calculate figures for non-hydrocarbon gases removed, gas used for repressuring, and gas vented and flared. Estimates for gross withdrawal data are calculated from final monthly data filed on Form EIA-895 for the previous year.

### ***Preliminary Monthly Data***

All monthly data are considered preliminary until after publication of the *Natural Gas Annual* for the year in which the report month falls. Preliminary monthly data are published from reports from the Form EIA-895 and the MMS. Volumetric data are converted, as necessary, to a standard 14.73 psia pressure base. Data are revised as Table 7 monthly data are updated.

### ***Final Monthly Data***

Final monthly data for 1993, 1994, and 1995 are the sums of monthly data reported on the annual Form EIA-627, "Annual Quantity and Value of Natural Gas Report." For prior years, the differences between each State's annual production data reported on the EIA-627 and the sum of its monthly IOGCC reports for the year were allocated proportionally to the monthly IOGCC data.

## **Note 4. Imports and Exports**

### ***Annual Data and Final Monthly Data***

Annual and final monthly data are published from the Office of Fossil Energy, U.S. Department of Energy, *Natural Gas Imports and Exports*, which requires data to be reported each quarter by month for the calendar year.

### ***Preliminary Monthly Data - Imports***

Preliminary monthly import data are based on data from the National Energy Board of Canada and responses to informal industry contacts and EIA estimates. Preliminary data are revised after the publication of the article "U.S. Imports and Exports of Natural Gas" for the calendar year.



## ***Preliminary Monthly Data - Exports***

Preliminary monthly export data are based on historical data from the Office of Fossil Energy, U.S. Department of Energy, *Natural Gas Imports and Exports*, informal industry contacts, and information gathered from natural gas industry trade publications. Preliminary monthly data are revised after publication of "U.S. Imports and Exports of Natural Gas" for the calendar year in which the report month falls.

## **Note 5. Consumption**

### ***All Annual Data***

All consumption data except electric utility data are from the Form EIA-857 and Form EIA-176. No adjustments are made to the data. Electric utility data are reported on Form EIA-759.

### ***Monthly Data***

All monthly data are considered preliminary until after publication of the *Natural Gas Annual*.

### ***Total Consumption***

#### **Preliminary Monthly Data**

The most current month estimate is calculated based on the arithmetic average change from the previous month for the previous 3 years. The following month this estimate is revised by summing the components (pipeline fuel, lease and plant fuel, and deliveries to consumers).

#### **Final Monthly Data**

Monthly data are revised after publication of the *Natural Gas Annual*. Final monthly total consumption is obtained by summing its components.

### ***Residential, Commercial, and Industrial Sector Consumption***

#### **Preliminary Monthly Data**

Preliminary monthly residential, commercial, and industrial data are from Form EIA-857. See Appendix C, "Statistical Considerations," for a detailed explanation of sample selection and estimation procedures.

## **Average Price of Deliveries to Consumers**

Price data are representative of prices for gas sold and delivered to residential, commercial, and industrial consumers. These prices do not reflect average prices of natural gas transported to consumers for the account of third parties or "spot-market" prices.

### **Final Monthly Data**

Monthly data are revised after the publication of the *Natural Gas Annual*. Final monthly data are estimated by allocating annual consumption data from the Form EIA-176 to each month in proportion to monthly volumes reported in Form EIA-857.

### ***Agricultural Use***

Beginning with the reporting of 1996 annual data, the EIA changed the customer category used for reporting deliveries to consumers in the agricultural industry from commercial to industrial. In 1995 and earlier years, consumption of natural gas for agricultural use was classified as commercial use. Separate reports of the volumes affected are not available so the direct impact of this change is not known. Most natural gas consumed in agriculture is used to drive irrigation systems and to dry crops.

For the reporting of monthly data, the customer category will not be changed until 1998. In 1996, the monthly data reported under the old classification were adjusted to the annual data reported under the new classification. Monthly 1997 data will be adjusted in the same way as the 1996 data.

In comparing sectoral use over time, note that:

- There is an inherent shift in natural gas volumes from the commercial to industrial sectors due simply to changes in the reporting requirements. This break in series may indicate a spurious increase in industrial consumption with a corresponding decrease in the commercial sector.
- The sum of natural gas volumes consumed by the commercial and industrial sectors will not be changed by this modification of the instructions.

### ***Electric Utility Sector Consumption***

#### **All Monthly Data**

Monthly data published are from Form EIA-759.

## ***Pipeline Fuel Consumption***

### **Preliminary Monthly Data**

Preliminary data are estimated based on the pipeline fuel consumption as an annual percentage of total consumption from the previous year's Form EIA-176. This percentage is applied to each month's total consumption figure to compute the monthly estimate.

### **Final Monthly Data**

Monthly data are revised after the publication of the *Natural Gas Annual*. Final monthly data are based on the revised annual ratio of pipeline fuel consumption to total consumption from the Form EIA-176. This ratio is applied to each month's revised total consumption figure to compute final monthly pipeline fuel consumption estimates.

## ***Lease and Plant Fuel Consumption***

### **Preliminary Monthly Data**

Preliminary monthly data are estimated based on lease and plant fuel consumption as an annual percentage of marketed production. This percentage is applied to each month's marketed production figure to compute estimated lease and plant fuel consumption.

### **Final Monthly Data**

Monthly data are revised after publication of the *Natural Gas Annual*. Final monthly plant fuel data are based on a revised annual ratio of lease and plant fuel consumption to marketed production from Form EIA-176. This ratio is applied to each month's revised marketed production figure to compute final monthly plant fuel consumption estimates. Final monthly lease data are collected on the Form EIA-627 and estimates from the Form EIA-176. See the *Natural Gas Annual* for a complete discussion of this process.

## **Note 6. Extraction Loss**

### ***Annual Data***

Extraction loss data are calculated from filings of Form EIA-64A, "Annual Report of the Origin of Natural Gas Liquids Production." For a fuller discussion, see the *Natural Gas Annual*.

## ***Preliminary Monthly Data***

Preliminary data are estimated based on extraction loss as an annual percentage of marketed production. This percentage is applied to each month's marketed production to estimate monthly extraction loss.

### ***Final Monthly Data***

Monthly data are revised after the publication of the *Natural Gas Annual*. Final monthly data are estimated by allocating annual extraction loss data to each month based on its total natural gas marketed production.

## **Note 7. Natural Gas Storage**

### ***Underground Natural Gas Storage***

All monthly data concerning underground storage are published from the EIA-191. A new EIA-191 became effective in January 1994. Injection and withdrawal data from the EIA-191 survey are adjusted to correspond to data from Form EIA-176 following publication of the *Natural Gas Annual*.

### ***Underground and Liquefied Natural Gas Storage***

The final monthly and annual storage and withdrawal data for 1991 through 1995 shown in Table 2 include both underground and liquefied natural gas (LNG) storage. Underground storage data are obtained from the EIA-191 and EIA-176 surveys in the manner described earlier. Annual data on LNG additions and withdrawals are taken from Form EIA-176. Monthly data are estimated by computing the ratio of each month's underground storage additions and withdrawals to annual underground storage additions and withdrawals and applying it to annual LNG data.

### ***Types of Underground Storage Facilities***

There are three principal types of underground storage facilities in operation in the United States today: salt caverns (caverns hollowed out in salt "bed" or "dome" formations), depleted fields (depleted reservoirs in oil and/or gas fields), and aquifer reservoirs (water-only reservoirs conditioned to hold natural gas). A storage facility's daily deliverability or withdrawal capability

is the amount of gas that can be withdrawn from it in a 24-hour period. Salt cavern storage facilities generally have high deliverability because all of the working gas in a given facility can be withdrawn in a relatively short period of time. (A typical salt cavern cycle is 10 days to deplete working gas, and 20 days to refill working gas.) By contrast, depleted field and aquifer reservoirs are designed and operated to withdraw all working gas over the course of an entire heating season (about 150 days). Further, while both traditional and salt cavern facilities can be switched from withdrawal to injection operations during the heating season, this is usually more quickly and easily done in salt cavern facilities, reflecting their greater operational flexibility.

## Note 8. Average Wellhead Value

### *Annual Data*

Form EIA-895 requests State agencies to report the quantity and value of marketed production. When complete data are unavailable, the form instructs the State agency to report the available value and the quantity of marketed production associated with this value. A number of States reported volumes of production and associated values for other than marketed production. In addition, information for several States which were unable to provide data was obtained from Form EIA-176. It should be noted that Form EIA-176 reports a fraction of State production. The imputed value of marketed production in each State is calculated by dividing the State's reported value by its associated production. This unit price is then applied to the quantity of the State's marketed production to derive the imputed value of marketed production.

### *Preliminary Monthly Data*

A preliminary estimate of the U.S. gas price is made each month based on the change in the production-weighted gas price from five States: Kansas, Mississippi, New Mexico, Oklahoma, and Texas. Gas prices for these five States are used because both their gas production and value represent a substantial sample of the U.S. gas production and value (roughly 50 percent), and their prices are readily available and provide a consistent series. The latest preliminary U.S. gas price estimate is calculated by multiplying the preliminary U.S. gas price estimate for the prior month by the ratio of the five States' gas price for the latest month to that

of the prior month. This estimate replaces the initial gas price estimate.

### *Final Monthly Data*

Preliminary monthly gas price data for Kansas, Mississippi, New Mexico, Oklahoma, and Texas are replaced by final monthly data that are adjusted to match the annual prices published in the *Natural Gas Annual* for each State. A revised set of the monthly U.S. gas price estimates are derived based on the monthly change in the production-weighted prices for these five States and adjusted to match the U.S. gas price published in the *Natural Gas Annual*.

## Note 9. Balancing Item

The "balancing item" category represents the difference between the sum of the components of natural gas supply and the sum of the components of natural gas disposition. These differences may be due to quantities lost or to the effects of data reporting problems.

Reporting problems include differences due to the net result of conversions of flow data metered at varying temperatures and pressure bases and converted to a standard temperature and pressure base; the effect of variations in company accounting and billing practices; differences between billing cycles and calendar periods; and imbalances resulting from the merger of data reporting systems, which vary in scope, format, definitions, and type of respondents.

### *Annual Data*

Annual data are from the *Natural Gas Annual*. For an explanation of the methodology involved in calculating annual "balancing item" data, see the *Natural Gas Annual*.

### *Preliminary Monthly Data*

Preliminary monthly data in the "balancing item" category are calculated by subtracting dry gas production, withdrawals from storage, supplemental gaseous fuels, and imports from total supply/disposition.

## **Note 10. Heating Degree-Days**

Degree-days are relative measurements of outdoor air temperature. Heating degree-days are deviations of the mean daily temperature below 65 degrees Fahrenheit. A weather station recording a mean daily temperature of 40 degrees Fahrenheit would report 25 heating degree-days. There are several degree-day data bases maintained by the National Oceanic and Atmospheric Administration. The information published in the

Natural Gas Monthly is developed by the National Weather Service Climate Analysis Center, Camp Springs, Maryland.

The data are available weekly with monthly summaries and are based on mean daily temperatures recorded at about 200 major weather stations around the country. The temperature information recorded at these weather stations is used to calculate Statewide degree-day averages weighted by gas home customers. The State figures are then aggregated into Census Divisions and into the national average.

## Appendix B

### Data Sources

The data in this publication are taken from survey reports authorized by the U.S. Department of Energy (DOE), Energy Information Administration (EIA) and by the Federal Energy Regulatory Commission (FERC). The EIA is the independent statistical and analytical agency within the DOE. The FERC is an independent regulatory commission within the DOE which has jurisdiction primarily in the regulation of electric utilities and the interstate natural gas industry. The EIA conducts and processes some of the surveys authorized by the FERC. Data are collected from two annual surveys and four monthly surveys.

The annual reports are the Form EIA-176, a mandatory survey of all companies that deliver natural gas to consumers or that transport gas across State lines, and the Form EIA-627, a voluntary survey completed by energy or conservation agencies in the gas-producing States.

The monthly reports include two surveys of the natural gas industry and two surveys of the electric utility industry. The natural gas industry survey is the Form EIA-191 filed by companies that operate underground storage facilities, and the Form EIA-857 filed by a sample of companies that deliver natural gas to consumers. The electric utility industry surveys are the Form EIA-759 filed by all generating electric utilities and the Form FERC-423 filed by fossil fueled plants. Responses to these four monthly surveys are mandatory.

A description of the survey respondents, reporting requirements, and processing and editing of the data is given on the following pages for each of the surveys.

#### **Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition"**

##### *Survey Design*

The original version of Form EIA-176 was approved in 1980 with a mandatory response requirement. Prior to 1980, published data were based on voluntary responses to Bureau of Mines, U.S. Department of the Interior predecessor Forms BOM-6-1340-A and BOM-6-1341-A of the same title.

In 1982, the scope of the revised EIA-176 survey was expanded to collect the number of electric utility consumers in each State, volumes of gas transported to industrial and electric utility consumers, detailed information on volumes transported across State borders by the respondent for others and for the responding company, and detailed information on other disposition. These changes were incorporated to provide more complete survey information with a minimal change in respondent burden. The 1982 version of the Form EIA-176 continues to be the basis for the current version of this form.

In 1988, the Form EIA-176 was revised to include data collection for deliveries of natural gas to commercial and industrial consumers for the account of others. A short version of Form EIA-176 was also approved in 1988. Companies engaged in purchase and delivery activities but not in transportation and storage activities may file the short form. Usually, these companies are municipals handling small volumes of gas.

In 1990, the Form EIA-176 was revised to include more detailed information for gas withdrawn from storage facilities, gas added to storage facilities, deliveries of company-owned natural gas and natural gas transported for the account of others. The revised form was approved for use beginning with report year 1990.

Upon the Office of Management and Budget's approval in 1993, the Form EIA-176 was again revised. All deliveries to consumers are now categorized as firm or interruptible. Commercial and industrial consumers are further categorized as nonutility power producers or as those excluding nonutility power producers.

Data reported on this form are no longer considered proprietary. Response to the form continues to be mandatory.

### ***Survey Universe and Response Statistics***

The Form EIA-176 is mailed to all identified interstate and intrastate natural gas pipeline companies, investor and municipally owned natural gas distributors, underground natural gas storage operators, synthetic natural gas plant operators, and field, well, or processing plant operators that deliver natural gas directly to consumers (including their own industrial facilities) and/or that transport gas to, across, or from a State border through field or gathering facilities.

Each company and its parent company or subsidiaries were required to file if they met the survey specifications. The original mailing in 1996 for report year 1995 totaled 1,991 questionnaire packages. To this original mailing, 11 names were added and 61 were deleted as a result of the survey processing. Additions were the result of comparisons of the mailing list to other survey mailing lists. Deletions resulted from post office returns and determinations that companies were out of business, sold, or not within the scope of the survey. After all updates, the survey universe was 1,941 responses from approximately 1,800 companies.

Following the original mailing, second request mailing, and nonrespondents followup, 1,911 responses were entered into the data base, and there were 30 nonrespondents.

### ***Summary of Form EIA-176 Data Reporting Requirements***

The EIA-176 is a multiline schedule for reporting all supplies of natural gas and supplemental gaseous fuels

and their disposition within the State indicated. Respondents file completed forms with EIA in Washington, DC. Data for the report year are due by April 1 of the following year. Extensions of the filing deadline for up to 45 days are granted to any respondent on request.

All natural gas and supplemental gaseous fuels volumes are reported on a physical custody basis in thousand cubic feet (Mcf), and dollar values are reported to the nearest whole dollar. All volumes are reported at 14.73 pounds per square inch absolute pressure (psia) and 60 degrees Fahrenheit.

### ***Routine Form EIA-176 Edit Checks***

A series of manual and computerized edit checks are used to screen the Form EIA-176. The edits performed include validity, arithmetic, and analytical checks.

The incoming forms are reviewed prior to keying. This prescan determines if the respondent identification (ID) number and the company name and address are correct, if the data on the form appear complete and reasonable, and if the certifying information is complete.

Manual checks on the data are also made. Each form is prescanned to determine that data were reported on the correct lines. The flow of gas through interstate pipelines is checked at the company level to ensure that each delivery from a State is matched with a corresponding receipt in an adjoining State.

After the data are keyed, computer edit procedures are performed. Edit programs verify the report year, State code, and arithmetic totals. Further tests are made to ensure that all necessary data elements are present and that the data are reasonable and internally consistent. The computerized edit system produces error listings with messages for each failed edit test. When problems occur, respondents are contacted by telephone and required to file amended forms with corrected data.

### ***Other EIA Publications Referencing Form EIA-176***

Data from Form EIA-176 are also published in the *Natural Gas Annual*.

## Form EIA-895, "Monthly Quantity of Natural Gas Report"

### *Survey Design*

In 1996, an annual schedule was added to the Form EIA-895 to replace the Form EIA-627. Data collection on the Form EIA-895 began in January 1995. This form was designed to replace the Interstate Oil and Gas Compact Commission (IOGCC) form, "Monthly Report of Natural Gas Production." In 1994, the IOGCC decided to discontinue collection of their form. All gas producing States are requested to report on the Form EIA-895; a voluntary report. Data are reported by State agencies. The form was designed to provide a standard reporting system, to the extent possible, for the natural gas data reported by the States. Data are not considered proprietary.

Beginning with 1980, natural gas production data previously obtained on an informal basis from State conservation agencies were collected on Form EIA-627. This form was designed by EIA to collect annual natural gas production data from the appropriate State agencies under a standard data reporting system within the limits imposed by the diversity of data collection systems of the various producing States. The form was redesigned in 1990 to collect monthly breakdowns of all annual data elements. Data are not considered proprietary. It was also designed to avoid duplication of effort in collecting production and value data by producing States and to avoid an unnecessary respondent burden on gas and oil well operators. In 1993, value and associated volume of marketed production by month was added to the EIA-627. In 1996, the Form EIA-627 was discontinued. The information is collected on an annual schedule on the Form EIA-895.

### *Survey Universe and Response Statistics*

Form EIA-895 is mailed to energy or conservation agencies in all 33 natural gas producing States. All producing States participate voluntarily in the EIA-895 survey by filing the completed form or by responding to telephone contacts.

Reports on State production are due 20 days after the end of the report month. (In most cases, the data are not available to the States until after this time period.

Therefore, States are requested to send the report within 80 days after the end of the report month.) The annual schedule of the Form EIA-895 is due with the December data report.

### *Summary of Data Requirements*

The Form EIA-895 monthly schedule consists of nine questions on one page, and requires volumetric information on gross production (gas and oil wells individually), gas used for repressuring, gas vented and flared, nonhydrocarbon gases removed, natural gas used as fuel on leases, marketed production, value based marketed production and the value in dollar amount of the marketed production.

Form EIA-895 annual schedule collects data on the monthly and annual production volume of natural gas (including gross withdrawals from both gas and oil wells); volumes returned to formation for repressuring, pressure maintenance, and cycling; quantities vented and flared; quantities of nonhydrocarbon gases removed; quantities of fuel used on leases; marketed production; the value of marketed production; and the number of producing gas wells.

Respondents are asked to report all volumes in thousand cubic feet at the State's standard pressure base and at 60 degrees Fahrenheit. All dollar values are reported in thousands.

### *Routine Form EIA-895 Edit Checks*

Each filing of Form EIA-895 is manually checked for reasonableness and mathematical accuracy. Information on the forms is compared to totals of monthly data reported. Volumes are converted, as necessary, to a standard 14.73 psia pressure base. Reasonableness of data is assessed by comparing reported data to the previous year's data. State agencies are contacted by telephone to correct errors. Amended filings or resubmissions are not a requirement, since participation in the survey is voluntary.

### *Other EIA Publications Referencing Form EIA-895*

Data from Form EIA-895 are also published in the EIA publication, *Natural Gas Annual*.

## **EIA-191 Survey, "Underground Natural Gas Storage Report"**

### ***Survey Design***

The Form EIA-191, "Underground Natural Gas Storage Report," was revised effective January 1994. Among the changes from the form used from 1991 through 1993 are a distinction between a monthly and annual survey. Prior to 1991, data on the storage of natural gas were collected on a survey jointly implemented in 1975 by the Federal Power Commission (FPC), the Federal Energy Administration (FEA), and the Bureau of Mines (BOM) as the FPC-8/ FEA-G-318 system. The data received on both the FPC-8 and FEA-G-318 were computerized and aggregated by FPC. The form was previously revised in 1991 to include storage data by State, field, and reservoir.

At the beginning of 1979, the EIA assumed responsibility for the collection, processing, and publication of the data gathered in the survey. Form FEA-G-318 was renewed on July 1, 1979, as Form EIA-191 and the survey was retitled the FPC-8/EIA-191 Survey (Figure D4 shows the EIA-191). Form FPC-8 was renewed in December 1985 and the survey retitled FERC-8/EIA-191 Survey. The forms were not merged because of FERC's stated desire to maintain the separate identity of the FERC-8 for administrative reasons. In September 1995, the FERC discontinued the reporting requirements of Form FERC-8. FERC jurisdictional firms will continue to file Form EIA-191.

### ***Survey Universe and Response Statistics***

The 103 companies that operate underground facilities will file the Form EIA-191. Of these companies, 42 are subject to the jurisdiction of FERC and are required to report data on Form EIA-191.

The response rate as of the filing deadline is approximately 20 percent. Data from the remaining 80 percent of respondents are received in writing and/or by telephone within 3 to 4 days after the filing deadline. All data supplied by telephone are subsequently filed in writing, generally within 15 days of the filing deadline. The final response rate is 100 percent.

### ***Summary of EIA-191 Data Reporting Requirements***

The EIA-191 monthly schedule contains current month and prior month's data on the total quantities of gas in storage, injections and withdrawals, the location (including State and county, field, reservoir) and peak day withdrawals during the reporting period. Prior month's data are required only when data are revised.

Information on co-owners of storage fields has been eliminated. The annual schedule contains type of facility, storage field capacity, maximum deliverability and pipelines to which each field is connected. The annual schedule is filed with the January submission.

Collection of the survey is on a custody basis. Information requested must be provided within 20 days after the first day of each month. Twelve reports are required per calendar year. Respondents are required to indicate whether the data reported are actual or estimated. For most of the estimated filings, the actual data or necessary revisions are reflected in the prior month section of the monthly form. Actual data on natural gas injections and withdrawals from underground storage are based on metered quantities. Data on quantities of gas in storage and on storage capacity represent, in part, reservoir engineering evaluations. All volumes are reported at 14.73 psia and 60 degrees Fahrenheit.

### ***Routine Form EIA-191 Edit Checks***

Data received on Form EIA-191 are entered into the survey processing system. The survey's five principal data elements (total, base, working gas in storage, injections, and withdrawals) receive a preliminary visual edit to eliminate and correct obvious errors or omissions. Respondents are required to refile reports containing any inconsistencies or errors.

### ***Other EIA Publications Referencing Form EIA-191***

The EIA publication *Monthly Energy Review* and *Winter Fuels Report* contain data from the EIA-191 survey.

## **"Quarterly Natural Gas Import and Export Sales and Price Report"**

### ***Survey Design***

The collection of data covering natural gas imports and exports was begun in 1973 by the Federal Power Commission (FPC). On October 1977, FPC ceased to exist and its data collection functions were transferred to the Federal Energy Regulatory Commission (FERC) within the Department of Energy (DOE). From 1979 to 1994, the Energy Information Administration (EIA) has had the responsibility for collecting Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." Data are not considered proprietary. The Form FPC-14 was discontinued in 1995.



Beginning in 1995, import and export data are taken from the "Quarterly Natural Gas Import and Export Sales and Price Report." This report is prepared by the Office of Fossil Energy, U.S. Department of Energy, based on information submitted by all firms having authorization to import or export natural gas.

### ***Survey Universe and Response Statistics***

All companies are required, as a condition of their authorizations to import or export natural gas, to file quarterly reports with the Office of Fossil Energy. These data are collected as part of its regulatory responsibilities. The data are reported at a monthly level of detail. Data reported on the Form FPC-14 represented physical movements of natural gas. Data collected by the Office of Fossil Energy are reported on an equity (sales) basis. For 1994 and earlier years, comparisons of the data from the two sources may show differences because reporting requirements were different.

Prior to 1995, the Form FPC-14 was filed annually by each organization or individual having authority to import and export natural gas regardless of whether any activity took place during the reporting year. Authorizations to import and export was originally granted by the FPC. In 1977, the authority to grant authorizations transferred to the Economic Regulatory Administration (ERA). It now resides with the Office of Fossil Energy, U.S. Department of Energy.

### ***Routine Edit Checks***

Respondents are required to certify the accuracy of all data reported. The data are checked for reasonableness and accuracy. If errors are found, the companies are required to file corrected data. The data are compared with data reported by the National Energy Board of Canada and are published quarterly. All natural gas volumes in this report are expressed at a pressure base of 14.73 pounds per square inch absolute and temperature of 60 degrees Fahrenheit, except as noted. All import and export prices are in U.S. dollars and, except for LNG exports, are those paid at the U.S. border. LNG export prices are those paid at the point of sale and delivery in Yokohama, Japan.

## **Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"**

### ***Survey Design***

The original Form EIA-857 was approved for use in December 1984. Response to the Form EIA-857 is mandatory on a monthly basis. Data collected on the Form EIA-857 cover the 50 States and the District of Columbia and include both price and volume data. Data are considered proprietary.

### ***Survey Universe and Response Statistics***

A sample of 382 natural gas companies, including interstate pipelines, intrastate pipelines, and local distribution companies, report to the survey. The sample was selected independently for each of the 50 States and the District of Columbia from a frame consisting of all respondents to Form EIA-176 who reported deliveries of natural gas to consumers in the residential, commercial, or industrial sectors. Each selected company is required to complete and file the Form EIA-857 on a monthly basis. Initial response statistics on a monthly basis are as follows: responses received by due date, approximately 50 percent, and responses received after follow-up, 100 percent. Virtually all are received in time for incorporation in the current month's processing cycle. When a response is extremely late, and the company represents less than 25 percent of the natural gas volumes delivered by all sampled companies in the State, values are imputed as described in Appendix C. When the company's submission is eventually received, the submitted data are used for future processing and revisions.

The Form EIA-857 is a monthly sample survey of firms delivering natural gas to consumers. It provides data that are used to estimate monthly sales of natural gas (volume and price) by State and monthly deliveries of natural gas on behalf of others (volume) by State to three consumer sectors - residential, commercial, and industrial. (Monthly deliveries and prices of natural gas to electric utilities are reported on the Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants," and the Form EIA-759, "Monthly Power Plant Report.") See Appendix C for a discussion of the sample design and estimation procedures.

## ***Summary of Form EIA-857 Data Reporting Requirements***

Data collected monthly on the Form EIA-857 on a State level include the volume and cost of purchased gas, the volume and cost of natural gas consumed by sector (residential, commercial, and industrial), and the average heat content of all gas consumed. Respondents file completed forms with EIA in Washington, DC on or before the 30th day after the end of the report month.

All natural gas volumes are reported in thousand cubic feet at 14.73 psia at 60 degrees Fahrenheit and dollar values are reported to the nearest whole dollar.

## ***Routine Form EIA-857 Edit Checks***

A series of manual and computerized edit checks are used to screen the Form EIA-857. The edits performed include validity and analytical checks.

## Appendix C

# Statistical Considerations

The monthly sales (volume and price) and monthly deliveries (volume) of natural gas to residential, commercial and industrial consumers presented in this report by State are estimated from data reported on the Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers." (See Appendix B for a description of this Form.) These estimations must be made from the reported data since the Form EIA-857 is a sample survey. A description of the sample design and the estimation procedures is given below.

## Sample Design

The Form EIA-857 is a monthly sample survey of companies delivering natural gas to consumers. It includes inter- and intrastate companies, and producers, as well as local distribution companies. The survey provides data that are used each month to estimate the volume of natural gas delivered and the price for onsystem sales of natural gas by State to three consumer sectors--residential, commercial, and industrial. Monthly deliveries and prices of natural gas to electric utilities are reported on the Form EIA-759, "Monthly Power Plant Report," and the Form FERC-423, "Monthly Report of Costs and Quality of Fuels for Electric Plants."

**Sample Universe.** The sample currently in use was selected from a universe of 1,538 companies. These companies were respondents to the Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition," for reporting year 1995 who reported sales or deliveries to consumers in the residential, commercial or industrial sectors. (See Appendix B for a description of the Form EIA-176.)

**Sampling Plan.** The goal was a sample that would provide estimates of monthly natural gas consumption by the three consuming sectors within each State and the District of Columbia. A stratified sample using a single stage and systematic selection with probability

proportional to size was designed. The measure of size was the volume of natural gas physically delivered in the State to the three consuming sectors by the company in 1995. There were two strata--companies selected with certainty and companies selected under the systematic probability proportional to size design.

Initial calculations showed that a 25 percent sample of companies would yield reasonably accurate estimates. The sample was selected independently in each State, resulting in a national total of 387 respondent companies. Unlike previous years, no mergers or acquisitions were uncovered as a result of the initial mail-out. Therefore there was no need for either substitution of respondent companies or a reduction in the total number of respondents.

**Certainty Stratum.** Since estimates were needed for each of the 50 States and the District of Columbia, the strata were established independently within each State. In 16 States and the District of Columbia where sampling was not feasible due to small numbers of companies and/or small volumes of gas deliveries, all companies were selected. The 16 States were: Alaska, Connecticut, Delaware, Hawaii, Idaho, Maine, North Dakota, New Hampshire, New Jersey, Nevada, Oregon, Rhode Island, South Dakota, Utah, Vermont, and Washington.

For each of the remaining States, the total volumes of industrial sales and deliveries and of the combined residential/commercial sales and deliveries were determined. Companies with natural gas deliveries to the industrial sector or to the combined residential/commercial sector above a certain level were selected with certainty. Since a few large companies often account for most of the natural gas delivered within a State, this ensures those companies' inclusion in the sample. The formula for determining certainty was applied independently in the two consumer sectors--the industrial and the combined residential/commercial. These selected companies, together with the companies in the jurisdictions discussed where sampling was not feasible, formed the certainty stratum.

All companies with natural gas deliveries in sector j greater than the cut-off value ( $C_j$ ) were included in the certainty stratum. The formula for  $C_j$  was:

$$C_j = \frac{X_j}{2n} \quad (1)$$

where:

$C_j$  = cutoff value for consumer sector j,

$n$  = target sample size to be selected for the State, 25 percent of the companies in the State,

$X_{ij}$  = the annual volume of natural gas deliveries by company i to customers in consumer sector j,

$X_i$  = the sum within State of annual gas volumes for company i,

$X_j$  = the sum within State of annual gas volumes in consumer sector j,

$X_{..}$  = the sum within State of annual gas volumes in all consumer sectors.

**Noncertainty Stratum.** All other companies formed the noncertainty stratum. They were systematically sampled with probability proportional to size. The measure of size for each company was the total volume of gas sales to all consumer sectors ( $X_i$ ). The number of companies to be selected from the noncertainty stratum was calculated for each State, with a minimum of 2.

The formula for selecting the number of noncertainty stratum companies was:

$$m = n \frac{X_2}{X_{..}} \quad (2)$$

where:

$m$  = the sample size for the noncertainty stratum within a State,

$X_2$  = the sum within State of the  $X_i$  for all companies in the noncertainty stratum.

Companies were listed in ascending order according to their measure of size and then a cumulative measure of size in the stratum was calculated for each company. The cumulative measure of size was the sum of the measures of size for that company and all preceding companies on the list. An interval of width I for selecting the companies systematically was calculated using

$(I = \frac{X_2}{m})$ . A uniform random number R was selected

between zero and I. The first sampled company was

the first company on the list to have a cumulative measure of size greater than R. The second company selected was the first company on the list to have a cumulative measure of size greater than  $R + I$ .  $R + I$  was increased again by I to determine the third company to be selected. This procedure was repeated until the entire sample was drawn.

**Subgroups.** In eight States, the noncertainty stratum was divided into subgroups to ensure that gas in each consumer sector could be estimated. The systematic sample with probability proportional to size design described above was applied independently in each subgroup. The methods for determining the subgroup sample size and calculating the subgroup interval for sample selection were the same as the methods described above for the noncertainty stratum, except that  $X_2$  was the sum within State of the  $X_i$  for only those companies in the subgroup.

These subgroups were defined only for the purpose of sample selection. They are:

California: companies handling only industrial gas and all other companies.

Iowa: companies handling industrial gas and companies delivering only to residential or commercial customers.

Louisiana: companies handling only industrial gas and all other companies, with the latter being further subdivided according to size. The larger group is comprised of all companies with total deliveries of at least 200 million cubic feet while the smaller group consists of companies with less than that volume of delivered gas (three subgroups).

Oklahoma: Companies delivering less than 500 million cubic feet of gas and those delivering more than that volume.

Texas: companies handling only residential/commercial gas, companies handling only industrial gas, and all other companies (three subgroups).

## Estimation Procedures

**Estimates of Volumes.** A ratio estimator is applied to the volumes reported in each State by the sampled companies to estimate the total gas sales and deliveries for the State. Ratio estimators are calculated for each consumer sector—residential, commercial, and industrial—in each State where companies are sampled.

The following annual data are taken from the most recent 1995 submissions of Form EIA-176:

The formula for calculating the ratio estimator ( $E_{vj}$ ) for the volume of gas in consumer sector  $j$  is:

$$E_{vj} = \frac{Y_j}{Y'_j} \quad (3)$$

where:

$Y_j$  = the sum within State of annual gas volumes in consumer sector  $j$  for all companies,

$Y'_j$  = the sum within State of annual gas volumes in consumer sector  $j$  for those companies in the sample.

The ratio estimator is applied as follows:

$$V_j = y_j \times E_{vj} \quad (4)$$

where:

$V_j$  = the State estimate of monthly gas volumes in consumer sector  $j$ ,

$y_j$  = the sum within State of reported monthly gas volumes in consumer sector  $j$ .

**Computation of Natural Gas Prices.** The natural gas volumes that are included in the computation of prices represent only those volumes associated with natural gas sales.

The price of natural gas for a State within a sector is calculated as follows:

$$P_j = \frac{R_j}{V'_j}$$

where:

$P_j$  = the average price for gas sales within the State in consumer sector  $j$ ,

$R_j$  = the reported revenue from natural gas sales within the State in consumer sector  $j$ ,

$V_j$  = the reported volume of natural gas sales within the State in consumer sector  $j$ .

All average prices are weighted by their corresponding sales volume estimates when national average prices are computed.

The monthly average prices of natural gas are based on sales data only. Volumes of gas delivered for the account of others to these consumer sectors are not included in the State or national average prices.

Table 25 shows the percent of the total State volume that represents volumes from natural gas sales to the commercial and industrial sectors. This table may be helpful in evaluating commercial and industrial price data. Virtually all natural gas deliveries to the residential sector represent onsystem sales volumes only.

See the section on consumer price calculations in this Appendix for further price information.

**Estimation for Nonrespondents.** A volume for each consumer category is imputed for companies that fail to respond. The imputation is based on the previous month's value reported by the non-responding company and the change from the previous month to the current month in volumes reported by other companies in the State. The imputed volumes are included in the State totals. To estimate prices for non-respondents, the unit price (dollars per thousand cubic feet) reported by the company in the previous month is used.

The formula for imputing volumes of gas sales for nonrespondents was:

$$F_t = F_{t-1} \times \frac{y_{jt}}{y_{jt-1}} \quad (5)$$

where:

$F_t$  = imputed gas volume for current month  $t$ ,

$F_{t-1}$  = gas volume for the company for the previous month,

$y_{jt}$  = gas volume reported by companies in the State stratum for report month  $t$ ,

$y_{jt-1}$  = gas volume in the previous month for companies in the State stratum that reported in month  $t$ .

## Final Revisions

**Adjusting Monthly Data to Annual Data.** After the annual data reported on the Form EIA-176 have been submitted, edited, and prepared for publication in the *Natural Gas Annual*, revisions are made to monthly data. The revisions are made to the volumes and prices of natural gas delivered to consumers that have appeared in the *Natural Gas Monthly* to match them to the annual values appearing in the *Natural Gas Annual*. The revised monthly estimates allocate the difference between the sum of monthly estimates and the annual reports according to the distribution of the estimated values across the months.

Before the final revisions are made, changes or additions to submitted data received after publication of the monthly estimate and not sufficiently large to require a revision to be published in the *Natural Gas Monthly*, are used to derive an updated estimate of monthly consumption and revenues for each State's residential, commercial, or industrial natural gas consumption.

For each State, two numbers are revised, the estimated consumption and the estimated price per thousand cubic feet.

The formula for revising the estimated consumption is:

$$V_{jm}^* = V_{jm} + \left[ (V_{ja} - V'_{jm}) \left( \frac{V_{jm}}{V'_{jm}} \right) \right] \quad (6)$$

where:

$V_{jm}^*$  = the final volume estimate for month m in consumer sector j,

$V_{jm}$  = the estimated volume for month m in consumer sector j,

$V_{ja}$  = the volume for the year reported on Form EIA-176,

$V'_{jm}$  = The annual sum of estimated monthly volumes.

The price is calculated as described above in the Estimation Procedures section, using the final revised consumption estimate and a revised revenue estimate.

The formula for revising the estimated revenue is:

$$R_{jm}^* = R_{jm} + \left[ (R_{ja} - R'_{jm}) \left( \frac{R_{jm}}{R'_{jm}} \right) \right] \quad (7)$$

where:

$R_{jm}^*$  = the final revenue estimate for month m in consumer sector j,

$R_{jm}$  = the estimated revenue for month m in consumer sector j,

$R_{ja}$  = the revenue for the year reported on Form EIA-176,

$R'_{jm}$  = The annual sum of estimated monthly revenues. Revision of Volumes and Prices for Deliveries to Electric Utilities. Revisions to monthly electric utilities data are published throughout the year as they become available.

## Reliability of Monthly Data

The monthly data published in this report are subject to two sources of error - nonsampling error and sampling error. Nonsampling errors occur in the collection and processing of the data. See the discussion of the Form EIA-857 in Appendix B for a description of nonsampling errors for monthly data.

Sampling error may be defined as the difference between the results obtained from a sample and the results that a complete enumeration would provide. The standard error statistic is a measurement of sampling error.

**Standard Errors.** A standard error of an estimate is a statistical measure that indicates how the estimate from the sample compares to the result from a complete enumeration. Standard errors are calculated based on statistical theory that refers to all possible samples of the same size and design.

The standard errors for monthly natural gas volume estimates by State are given in Table C1. Ninety-five percent of the time, the volume that would have been obtained from a complete enumeration will lie in the range between the estimated volume minus two standard errors and the estimated volume plus two standard errors.

The standard error of the natural gas volume estimate is the square root of the variance of the estimate. The formula for calculating the variance of the volume estimate is:

$$V(\hat{Y}) = \sum_{h=1}^H \left[ N_h^2 \frac{(1 - \frac{n_h}{N_h})}{n_h(n_h - 1)} \left( \sum_{i=1}^{n_h} (y_i - T x_i)^2 \right) \right] \quad (8)$$

where:

$H$  = the total number of strata

$N_h$  = the total number of companies in stratum h

$n_h$  = the sample size in stratum h

$y_i$  = the reported monthly volume for company i

$x_i$  = the reported annual volume for company i

$T$  = the ratio of the sum of the reported monthly volumes for sample companies to the sum of the reported annual volumes for the sample companies.

**Table C-1. Standard Error for Natural Gas Deliveries and Price to Consumers by State, November 1997**

State	Volume Million Cubic Feet				Price Dollars per Thousand Cubic Feet		
	Residential	Commercial	Industrial	Total	Residential	Commercial	Industrial
Alabama .....	812	307	1,229	1,505	0.50	0.57	1.24
Alaska .....	0	0	0	0	—	—	—
Arizona .....	71	24	0	74	0.04	0.10	—
Arkansas .....	0	0	0	0	—	—	—
California .....	465	117	502	695	0.07	0.11	0.17
Colorado .....	NA	NA	NA	NA	NA	NA	NA
Connecticut .....	0	0	0	0	—	—	—
Delaware .....	0	0	0	0	—	—	—
District of Columbia .....	0	0	0	0	—	—	—
Florida .....	340	148	190	417	3.45	1.05	1.74
Georgia .....	613	56	1,121	1,279	0.09	0.15	0.54
Hawaii .....	0	NA	NA	NA	—	NA	NA
Idaho .....	0	0	0	0	—	—	—
Illinois .....	3,120	3,334	3,309	5,639	0.15	1.25	1.21
Indiana .....	1,307	1,269	4,017	4,411	0.91	0.49	0.27
Iowa .....	889	202	52	913	0.68	0.12	0.07
Kansas .....	933	610	3,343	3,524	0.18	0.34	3.98
Kentucky .....	568	40	1,692	1,785	0.10	0.20	2.28
Louisiana .....	162	75	6,198	6,201	0.22	0.44	0.01
Maine .....	0	0	0	0	—	—	—
Maryland .....	2	42	49	65	—	0.02	0.04
Massachusetts .....	1,309	811	4,199	4,472	0.34	0.11	1.05
Michigan .....	3,789	1,411	2,626	4,821	0.29	0.23	0.67
Minnesota .....	1,330	97	1,502	2,009	0.42	0.54	0.31
Mississippi .....	226	63	134	270	0.77	0.58	0.28
Missouri .....	1,201	782	1,121	1,819	0.68	0.95	2.08
Montana .....	1	1	0	2	0.01	0.02	—
Nebraska .....	96	72	166	205	0.19	0.09	0.59
Nevada .....	0	0	0	0	—	—	—
New Hampshire .....	0	0	0	0	—	—	NA
New Jersey .....	0	0	0	0	—	—	—
New Mexico .....	1,222	127	880	1,511	0.75	1.17	—
New York .....	NA	NA	0	NA	NA	NA	—
North Carolina .....	52	24	429	433	0.09	0.03	0.23
North Dakota .....	0	0	0	0	—	—	—
Ohio .....	0	0	0	0	—	—	—
Oklahoma .....	282	4,030	1,095	4,186	0.19	5.68	0.28
Oregon .....	0	0	0	0	—	—	—
Pennsylvania .....	391	1,860	1,431	2,379	0.20	0.43	4.47
Rhode Island .....	0	0	0	0	—	—	—
South Carolina .....	176	107	229	308	0.55	0.13	0.12
South Dakota .....	0	0	0	0	—	—	—
Tennessee .....	656	489	1,113	1,382	0.51	0.36	0.57
Texas .....	421	1,527	27,673	27,718	0.44	0.26	0.05
Utah .....	0	0	0	0	—	—	—
Vermont .....	0	0	0	0	—	—	—
Virginia .....	321	876	533	1,075	0.41	1.11	0.43
Washington .....	NA	NA	0	NA	NA	NA	—
West Virginia .....	1,927	297	123	1,954	2.22	0.87	0.09
Wisconsin .....	638	1,429	1,539	2,194	0.11	0.16	0.88
Wyoming .....	23	52	488	491	0.14	0.18	0.10
<b>Total .....</b>	<b>6,821</b>	<b>6,593</b>	<b>29,750</b>	<b>31,226</b>	<b>0.09</b>	<b>0.14</b>	<b>0.40</b>

NA = Not Available.

— = Not Applicable.

Source: Energy Information Administration, Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

## Appendix D

### Natural Gas Reports and Feature Articles

#### ***Reports Dealing Principally with Natural Gas and/or Natural Gas Liquids***

- *Natural Gas Annual 1995*, DOE/EIA-0131(95), November 1996.
- *Natural Gas Annual 1993 Supplement: Company Profiles*, DOE/EIA-0131(93/S), February 1995.

#### ***Other Reports Covering Natural Gas, Natural Gas Liquids, and Other Energy Sources***

- *Monthly Energy Review*, DOE/EIA-0035. Published monthly. Provides national aggregate data for natural gas, natural gas liquids, and other energy sources.
- *Short-Term Energy Outlook*, DOE/EIA-0202. Published quarterly. Provides forecasts for next six quarters for natural gas and other energy sources.
- *Natural Gas 1995: Issues and Trends*, DOE/EIA-0560(95), November 1995.
- *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves - 1995 Annual Report*, DOE/EIA-0216(95)/Advance Summary, October 1996.
- *Annual Energy Review 1995*, DOE/ EIA-0384(95), July 1996. Published annually.
- *Annual Report to Congress 1995 DOE/ EIA-01733(95)*, July 1996. Published annually.
- *Annual Energy Outlook 1996*, DOE/ EIA-0383(96), January 1996. Published annually.

#### ***Selected One-Time Natural Gas and Related Reports***

- *The Value of Underground Storage in Today's Natural Gas Industry*, DOE/EIA-0591, March 1995.

- *Natural Gas Productive Capacity for the Lower 48 States, 1980 through 1995*, DOE/EIA-0542(95), July 1994.
- *Largest U.S. Oil and Gas Fields*, DOE/EIA-TR-0567, August 1993.
- *Energy Policy Act Transportation Rate Study*, DOE/EIA-0571, October 1993.
- *Energy Policy Act Transportation Study: Interim Report of Natural Gas Flows and Rates*, DOE/EIA-0602, October 1995.

#### ***Selected and Recurring Natural Gas and Related Data Reference Reports***

- *Directory of Energy Data Collection Forms*, DOE/EIA-0249(95), January 1996.
- *Oil and Gas Field Code Master List, 1995*, EIA-0370(95), December 1996.

### Feature Articles

#### ***January 1994***

##### **U.S. Coalbed Methane Production**

(Updates the Energy Information Administration's coalbed methane production information through 1992 and presents it by geologic basin and by State.)

#### ***February 1994***

##### **Contracting for Natural Gas Supplies**

(Addresses the contractual relationships of producers with end users and distributors for the natural gas that is shipped along the interstate pipeline systems.)



## *May 1994*

### **Opportunities with Fuel Cells**

(Discusses the uses of fuel cells in today's market.)

### **Revisions to Monthly Natural Gas Data**

(Discusses the revision errors for natural gas data.)

## *June 1994*

### **Natural Gas 1994: Issues and Trends - Executive Summary**

(Provides an overview of the natural gas industry in 1993 focusing on trends in production, consumption, and pricing of natural gas.)

## *August 1994*

### **U.S. Natural Gas Imports and Exports - 1993**

(Contains final 1993 data on all U.S. imports and exports of natural gas.)

## *March 1995*

### **The Comparability of Resource and Reserve Data for Crude Oil, Natural Gas, Coal, and Uranium**

(Clarifies which terms are equivalent among the four major energy minerals in the United States.)

## *July 1995*

### **Revisions to Monthly Natural Gas Data**

(Discusses the revision errors for natural gas data.)

## *June 1996*

### **Natural Gas Industry Restructuring and Data Collection**

(Discusses how restructuring of the natural gas industry has impacted the natural gas data collection efforts.)

## *July 1996*

### **Revisions to Monthly Natural Gas Data**

(Discusses the revision errors for natural gas data.)

## *November 1996*

### **U.S. Natural Gas Imports and Exports - 1995**

(Contains final 1995 data on all U.S. imports and exports of natural gas.)

## *December 1996*

### **Crosswell Seismology -- A View from Aside**

(Discusses crosswell seismology and its geologic and economic implications for the domestic oil and gas industry.)

## *May 1997*

### **Restructuring Energy Industries: Lessons from Natural Gas**

(Compares and contrasts the natural gas and electric power industries.)

## *July 1997*

### **Intricate Puzzle of Oil and Gas "Reserves Growth"**

(Discusses the factors that affect ultimate recovery estimates of a field or reservoir.)

## *August 1997*

### **Natural Gas Residential Pricing Developments During the 1996-97 Winter**

(Discusses key factors that affect pricing patterns, highlights the effects of weather, utilization patterns of natural gas storage, and pricing mechanisms used in natural gas markets.)

## *December 1997*

### **Recent Trends in Natural Gas Spot Prices**

(Focuses primarily on conditions and developments in the East Consuming Region and their connection to prices at the Henry Hub in the Producing Region.)

## Special Focuses

### *January 1997*

#### **Natural Gas Productive Capacity**

(Analyzes monthly natural gas wellhead productive capacity in the lower 48 States from 1985 and 1996 and project this capacity for 1996 and 1997.)

#### **Outlook for Natural Gas Through 2015**

(Presents an outlook for natural gas through 2015.)

### *August 1997*

#### **Worldwide Natural Gas Supply and Demand And the Outlook For Global LNG Trade**

(Focuses on natural gas into the next century with emphasis on world natural gas supply and demand to 2015.)

### *September 1997*

#### **Advance Summary: U.S. Crude Oil, Natural Gas, and Natural gas Liquids Reserves, 1996 Annual Report - Advance Summary**

(Focuses on proved reserves of domestic crude oil, natural gas, and natural gas liquids.)

## Special Reports

### *March 1997*

#### **Natural Gas Analysis and Geographic Information Systems**

(Explores how geographic information system techniques and methodologies are being used by the Energy Information Administration.)

### *April 1997*

#### **Natural Gas Pipeline and System Expansions**

(Examines recent expansions to the North American natural gas pipeline network.)

### *July 1997*

#### **Revisions to Monthly Natural Gas Data**

(Discusses the revision errors for natural gas data.)

#### **Natural Gas 1996: Highlights**

(Reviews data for 1996 based on Energy Information Administration surveys.)

### *August 1997*

#### **U.S. Natural gas Imports and Exports - 1996**

(Contains final 1996 data on all U.S. imports and exports of natural gas.)

### *September 1997*

#### **U.S. Underground Storage of Natural Gas in 1997: Existing and Proposed**

(Examines recent and proposed expansions of underground natural gas storage capacity and deliverability in the United States as of September 1, 1997.)

### *October 1997*

#### **Comparison of Natural Gas Storage Estimates from the EIA and AGA**

(Compares EIA and AGA estimates from January 1994 through July 1997.)

## Appendix E

### Technical Contacts

Section	Tables		Principal Data Sources	Technical Contact
Summary Statistics: Natural Gas Production	1, 2, 3	Monthly: Annual:	EIA-895, "Monthly Quantity of Natural Gas Report"	Sharon Belcher (202) 586-6119
		Monthly:	Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"	Roy Kass (202) 586-4790
Extraction Loss	1	Monthly: Annual:	EIA computations Form EIA-816, "Monthly Natural Gas Liquids Report" and Form EIA-64A, "Annual Report of the Origin of Natural Gas Liquids Production"	Margo Natof (202) 586-6303
Supplemental Gaseous Fuels	2	Monthly: Annual:	EIA computations Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition"	Margo Natof (202) 586-6303
Imports and Exports	2	Monthly: Annual:	EIA computations Office of Fossil Energy, U.S. Department of Energy, "Natural Gas Import and Exports"	Linda Cook (202) 586-6306
Price: City Gate, Residential, Commercial, and Industrial	4	Monthly:	Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"	Roy Kass (202) 586-4790
Wellhead	4	Monthly: Annual:	EIA computations Form EIA-895, "Monthly Quantity and Value of Natural Gas Report"	Sylvia Norris (202) 586-6106
Electric Utility	4	Monthly:	Form FPC-423, "Cost and Quality of Fuels for Electric Power Plants"	Roy Kass (202) 586-4790
Summary of Natural Gas Imports and Exports	5,6	Monthly:	Quarterly Natural Gas Import and and Export Sales and Price Report	Linda Cook (202) 586-6306
Producer Related Activities: Natural Gas Production	7,8	Monthly:	EIA-895, "Monthly Quantity of Natural Gas Report"	Sharon Belcher (202) 586-6119

Underground Storage:	9, 10, 11 12, 13, 14	Monthly:	Forms FERC-8 and EIA-191, "Underground Gas Storage Report"	Carol Jones (202) 586-6168
Distribution and Consumption:				
Deliveries to:				
Residential,	15	Monthly:	Form EIA-857, "Monthly Report of	Roy Kass
Commercial,	16		Natural Gas Purchases and Deliveries	(202) 586-4790
Industrial,	17		to Consumers"	
Electric Utility,	18		Form FERC-423, "Cost and Quality	
All Consumers	19		of Fuels for Electric Power Plants"	
Average Price to:				
City Gate,	20	Monthly:	Form EIA-857, "Monthly Report of	Roy Kass
Residential,	21		Natural Gas Purchases and Deliveries	(202) 586-4790
Commercial,	22		to Consumers"	
Industrial,	23		Form FERC-423, "Cost and Quality	
Electric Utility	24		of Fuels for Electric Power Plants"	
Onsystem Sales	25	Monthly:	Form EIA-857, "Monthly Report of	Roy Kass
			Natural Gas Purchases and Deliveries	(202) 586-4790
			to Consumers"	
Heating Degree Days	26	Seasonal:	National Oceanic and Atmospheric	Patricia Wells
			Administration	(202) 586-6077
Highlights				Mary Carlson (202) 586-4749

## Natural Gas Electronic Products

In addition to printed publications, the Energy Information Administration distributes information concerning the natural gas industry in a variety of electronic formats through several media. Two main types of products are available electronically: *viewable documents* that may be read or printed; and *post-processable files* that may be directly used as input to a computer application without additional keying and checking of data.

Viewable documents represent complete or selected sections of publications including text, tables and graphs. They may be as specific as single tables or as general as an entire publication. Post-processable documents on the other hand are either macro-level rep-

resentations of information in published tables or micro-level respondent information representing responses on a specific nonconfidential survey.

The media used to distribute these electronic publications include: (1) The Energy Information Administration's Internet site (<http://www.eia.doe.gov> or <ftp://ftp.eia.doe.gov>); (2) Dial-in access through the Energy Information Administration's EPUB electronic bulletin board or through the Economic Bulletin Board of the Department of Commerce and the COGIS system; (3) The Energy Information Administration's quarterly CD-ROM(Info-Disk); (4) The Energy Information Administration's Fax on Demand System; and (5) diskettes.

	Internet	Dial-In	InfoDisk	Fax	Diskette
ANNUAL PUBLICATIONS					
Natural Gas Annual, Volume 1, 1994 Provides information on supply, and disposition of natural gas in the United States. Information is provided nationally, regionally, and by State for 1994.	V P		V P		P
Natural Gas Annual, Volume 2, 1994 Contains historical information about supply and disposition of natural gas at the national, regional, and State level as well as prices at selected points in the flow of gas from wellhead to burnertip.	P		P		P
Natural Gas 1995: Issues and Trends Addresses current issues affecting the natural gas industry and markets, and analyzes trends in the most recent natural gas data.	V		V		
Natural Gas 1994: Issues and Trends Provides an overview of the natural gas industry in 1993 and early 1994, focusing on the overall ability to deliver gas under the new regulatory mandates of the Federal Energy Regulatory Commission's Order 636.	V		V		
Oil and Gas Products List 1994-1995 Brief descriptions of the various information products prepared by the Office of Oil and Gas.	V		V		
U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves Annual Report 1994 1994 national and State estimates of reserves, reserve changes, and production, plus industry highlights.	V		V		
MONTHLY PUBLICATIONS					
Natural Gas Monthly, from September 1995 forward. Entire Publication in viewable format	V		V		

V=Viewable

P=Post-Processable

	Internet	Dial-In	InfoDisk	Fax	Diskette
OTHER PUBLICATIONS					
Natural Gas 1995: Preliminary Highlights This Special Focus, which was featured in the April 1996 issue of the <i>Natural Gas Monthly</i> , presents events that affected the natural gas industry during 1995.	V	P		V	
Energy Policy Act Transportation Study: Interim Report on Natural Gas Flow and Rates (EPACT) Analysis of natural gas transportation rates and distribution patterns for the period from 1988 through 1994.	V		V		
Oil Production Capacity Expansion Cost for the Persian Gulf Quantifies the cost of expanding oil production capacity for the Persian Gulf based on geologic plays and fields rather than country-level economics. Development costs and volumes are estimated for the next 15 years.	V		V		
Costs and Indices for Domestic Oil and Gas Field Equipment and Production Operations 1990-1993 Cost of equipment and operation of oil and gas wells in the lower 48 States.	V		V		
Drilling Sideways- A Review of Horizontal Well Technology and the Domestic Application April 1993 report presenting salient aspects of current and near-future horizontal drilling and completion technology.	V		V		
International Oil and Gas Exploration and Development Compilation of country-level data and assessment of regional trends relating to upstream aspects of global oil and gas supply.	V		V		
Natural Gas Productive Capacity for the Lower 48 States 1984-1996 Analysis of monthly natural gas wellhead productive capacity.	V		V		
Natural Gas Productive Capacity for the Lower 48 States 1980-1995 Analysis of monthly natural gas wellhead productive capacity.	V		V		
Oil and Gas Field Code Master List Comprehensive listing of U.S. oil and gas field names as of November 1995.	V		V		
Oil and Gas Resources of the Fergana Basin (Uzbekistan, Tadjikistan, and Kyrgyzstan) Reservoir level assessments of oil and gas ultimate recovery in the former Soviet Union area.	V		V		
The Value of Underground Storage in Today's Natural Gas Industry Explores the significant and changing role of storage in the industry.	V		V		
U.S. Oil and Gas Development in the Early 1990's Analyses of the growing prominence of smaller energy companies in U.S. oil and gas production	V		V		
ANNUAL DATA					
Natural Gas Supply and Disposition, by State 1994	V P	V P		V	

V=Viewable

P=Post-Processable

	Internet	Dial-In	InfoDisk	Fax	Diskette
Natural Gas Summary, United States by Year 1990-1994	V P	V P		V	
1994 Natural Gas Annual Volume 1 data Self-extracting file containing data (in comma-delimited format) that appear in the tables in Volume I of the 1994 <i>Natural Gas Annual</i> .	P		P		P
1994 Natural Gas Annual Volume 2 data Self-extracting file containing historical information (in comma-delimited format) found in the tables in Volume II of the 1994 <i>Natural Gas Annual</i> . Annual historical data at the national level are presented for 1930-1994. Annual information by State and region is presented for 1967-1994.	P		P		P
1993 Data reported on Form EIA-176 A self-extracting compressed file containing data reported on Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition" for 1993.	P				P
1994 Data reported on Form EIA-176 A self-extracting compressed file containing data reported on Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition" for 1994.	P				P
Data archive of historical reserves estimates for U.S. Crude Oil, Natural Gas, and Natural Gas Liquids. National, State, and State subregion data published in the reserves balance tables of <i>U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves</i> from 1977 forward.	P				P
MONTHLY DATA					
Natural Gas Production, United States by Month 1989-forward	P	P		V	
Natural Gas Supply and Disposition, 1989-forward	P	P		V	
Natural Gas Imports and Exports 1989-forward	P	P		V	
Natural Gas Underground Storage: United States Total by Month 1989-forward	P	P		V	
Natural Gas Prices: United States Total by Month 1989-forward	P	P		V	
Natural Gas Consumption by Sector: United States Total by Month, 1989-forward	P	P		V	
SELF-EXTRACTING COMPRESSED DATA FILE ARCHIVES					
Natural Gas Consumption and Prices, for most recent 2-3 years	P	P			
Natural Gas Consumption and Prices, for 1984-1992	P	P			
OTHER REPORTS					
Natural Gas Weekly Market Update Analysis of current price, supply and storage data along with a two week snapshot of the weather in four distinct metropolitan areas.	V			V	

V=Viewable

P=Post-Processable

# Glossary

**Balancing Item:** Represents the difference between the sum of the components of natural gas supply and the sum of the components of natural gas disposition. These differences may be due to quantities lost or to the effects of data reporting problems. Reporting problems include differences due to the net result of conversions of flow data metered at varying temperature and pressure bases and converted to a standard temperature and pressure base; the effect of variations in company accounting and billing practices; differences between billing cycle and calendar period time frames; and imbalances resulting from the merger of data reporting systems which vary in scope, format, definitions, and type of respondents.

**Base (Cushion) Gas:** The volume of gas needed as a permanent inventory to maintain adequate underground storage reservoir pressures and deliverability rates throughout the withdrawal season. All native gas is included in the base gas volume.

**British Thermal Unit (Btu):** The heat required to raise the temperature of one pound of water by one degree Fahrenheit at or near 39.2 degrees Fahrenheit.

**City-gate:** A point or measuring station at which a gas distribution company receives gas from a pipeline company or transmission system.

**Commercial Consumption:** Gas used by nonmanufacturing organizations such as hotels, restaurants, retail stores, laundries, and other service enterprises, and gas used by local, State, and Federal agencies engaged in nonmanufacturing activities.

**Depletion:** The loss in service value incurred in connection with the exhaustion of the natural gas reserves in the course of service.

**Depreciation:** The loss in service value not restored by current maintenance, incurred in connection with the consumption or respective retirement of a gas plant in the course of service from causes that are known to be in current operation and against which the utility is not protected by insurance; for example, wear and tear, decay, obsolescence, changes in demand and requirements of public authorities, and the exhaustion of natural resources.

**Dry Natural Gas Production:** Marketed production less extraction loss.

**Electric Utility Consumption:** Gas used as fuel in electric utility plants.

**Exports:** Natural gas deliveries out of the continental United States and Alaska to foreign countries.

**Extraction Loss:** The reduction in volume of natural gas resulting from the removal of natural gas liquid constituents at natural gas processing plants.

**Flared:** The volume of gas burned in flares on the base site or at gas processing plants.

**Gross Withdrawals:** Full well stream volume, including all natural gas plant liquid and nonhydrocarbon gases, but excluding lease condensate. Also includes amounts delivered as royalty payments or consumed in field operations.

**Imports:** Natural gas received in the Continental United States (including Alaska) from a foreign country.

**Independent:** Producers: Any person who is engaged in the production or gathering of natural gas and who sells natural gas in interstate commerce for resale but who is not engaged in the transportation of natural gas (other than gathering) by pipeline in interstate commerce.

**Industrial Consumption:** Natural gas used by manufacturing and mining establishments for heat, power, and chemical feedstock.

**Interstate Companies:** Natural gas pipeline companies subject to FERC jurisdiction.

**Intransit Deliveries:** Redeliveries to a foreign country of foreign gas received for transportation across U.S. territory and deliveries of U.S. gas to a foreign country for transportation across its territory and redelivery to the United States.

**Intransit Receipts:** Receipts of foreign gas for transportation across U.S. territory and redelivery to a foreign country and redeliveries to the United States of U.S. gas transported across foreign territory.

**Intrastate Companies:** Companies not subject to FERC jurisdiction.



**Lease and Plant Fuel:** Natural gas used in well, field, lease operations and as fuel in natural gas processing plants.

**Liquefied Natural Gas (LNG):** Natural gas that has been liquefied by reducing its temperature to minus 260 degrees Fahrenheit at atmospheric pressure.

**Marketed Production:** Gross withdrawals less gas used for repressuring, quantities vented and flared, and nonhydrocarbon gases removed in treating or processing operations. Includes all quantities of gas used in field and processing operations. See Explanatory Note 1 for discussion of coverage of data concerning nonhydrocarbon gases removed.

**Native Gas:** Gas in place at the time that a reservoir was converted to use as an underground storage reservoir as in contrast to injected gas volumes.

**Natural Gas:** A mixture of hydrocarbon compounds and small quantities of various nonhydrocarbons existing in the gaseous phase or solution with oil in natural underground reservoirs at reservoir conditions.

**Nonhydrocarbon Gases:** Typical nonhydrocarbon gases that may be present in reservoir natural gas are carbon dioxide, helium, hydrogen sulfide, and nitrogen.

**Onsystem Sales:** Sales to customers where the delivery point is a point on, or directly interconnected with, a transportation, storage, and/or distribution system operated by the reporting company.

**Pipeline Fuel:** Gas consumed in the operation of pipelines, primarily in compressors.

**Repressuring:** The injection of gas into oil or gas formations to effect greater ultimate recovery.

**Residential Consumption:** Gas used in private dwellings, including apartments, for heating, cooking, water heating, and other household uses.

**Salt Cavern Storage Field:** A storage facility that is a cavern hollowed out in either a salt "bed" or "dome" formation.

**Storage Additions:** The volume of gas injected or otherwise added to underground natural gas or liquefied natural gas storage during the applicable reporting period.

**Storage Withdrawals:** Total volume of gas withdrawn from underground storage or liquefied natural gas storage during the applicable reporting period.

**Supplemental Gaseous Fuels Supplies:** Synthetic natural gas, propane-air, refinery gas, biomass gas, air injected for stabilization of heating content, and manufactured gas commingled and distributed with natural gas.

**Synthetic Natural Gas (SNG):** A manufactured product chemically similar in most respects to natural gas, that results from the conversion or reforming of petroleum hydrocarbons and may easily be substituted for or interchanged with pipeline quality natural gas.

**Therm:** One-hundred thousand British thermal units.

**Underground Gas Storage Reservoir Capacity:** Interstate company reservoir capacities are those certificated by FERC. Independent producer and intrastate company reservoir capacities are reported as developed capacity.

**Vented Gas:** Gas released into the air on the base site or at processing plants.

**Wellhead Price:** Represents the wellhead sales price, including charges for natural gas plant liquids subsequently removed from the gas, gathering and compression charges, and State production, severance, and/or similar charges.

**Working (Top Storage) Gas:** The volume of gas in an underground storage reservoir above the designed level of the base. It may or may not be completely withdrawn during any particular withdrawal season. Conditions permitting, the total working capacity could be used more than once during any season.